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SAN FRANCISCO FIRE DEPARTMENT



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Annual Report
1985 ~ 1986

CITY AND COUNTY OF SAN FRANCISCO
SAN FRANCISCO FIRE DEPARTMENT

EMMET D. CONDON, *Chief of Department*
CHARLES D. CRESCI, *Deputy Chief...Operations*
EDWARD J. PHIPPS, *Deputy Chief...Administration*



260 GOLDEN GATE AVENUE
SAN FRANCISCO, CALIFORNIA, 94102
(415) 861-8000, EXTENSION 281

December 1, 1986

Honorable President and
Members of the Fire Commission

Ladies and Gentlemen:

In accordance with Charter Section 3.501, I respectfully submit the San Francisco Fire Department's Annual Report for fiscal 1985-86.

1985-86 was a year of consolidating the gains made in recent years by the San Francisco Fire Department. The total number of alarms which the suppression forces responded to increased significantly--from 39,189, the previous year, to 43,050 for fiscal 1985-86. The number of actual fire incidents, however, declined slightly from 7,132 to 6,709. The number of greater alarms increased to 69 which is slightly below the average number of greater alarms reported over the past several years.

First-aid and resuscitation calls again increased dramatically over the previous year--by 36 percent. This indicates that the public is continuing the recent trend of placing greater demands on the resources of the Department in the area of emergency medical services.

The Suppression Program continued to provide fire prevention to the community through the Commercial and Residential Inspection Safety Program (CRISP) and maintained the program's 75 percent correction rate for violations found.

In the Prevention Program, the Bureau of Fire Prevention inspectors exceeded their goals by conducting over 40,200 inspections. Bureau personnel also remained active in public education programs and fire safety programs in San Francisco's schools.

Looking ahead, the Bureau of Fire Prevention is inaugurating the High-Rise Inspection Program which is mandated by the State of California. This program promises to become an important part of the Bureau's activities with the cost of the program recoverable through inspection fees.

Honorable President and
Members of the Fire Commission
Page 2
December 1, 1986

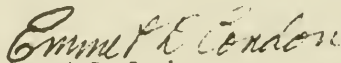
On April 4, 1986, the resources and expertise of the Bureau of Fire Investigation were severely taxed when an explosion and fire swept through the Bay View Industrial Park. This unfortunate incident resulted in the loss of nine lives and a dollar loss that is yet to be determined, with claims and lawsuits exceeding \$46 million to date.

In addition, the workload of the Fire Investigation Program increased 11 percent. Incendiary fires increased 21 percent although the total number of fires in San Francisco decreased slightly.

The Support Program's Bureau of Equipment, in addition to its normal duties, played an important part in the development of the Fire Department's portable-hydrant, high-pressure system. This system, developed under the leadership of Division Chief Frank Blackburn, promises to revolutionize the technology of water supply by providing an affordable means by which large volumes of water can be delivered to remote locations for emergency use, or temporarily replacing shattered water mains during a time of disaster such as an earthquake.

I am again grateful to Mayor Dianne Feinstein, the Fire Commission, the Board of Supervisors, other public officials, and the people of San Francisco for their continued support of the San Francisco Fire Department, and the Department's goal of protecting the lives and property of all the citizens of San Francisco.

Respectfully submitted,


Emmet D. Condon
Chief of Department

EDC:ff



Emmet D. Condon

CHIEF OF DEPARTMENT

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Administration

SAN FRANCISCO FIRE DEPARTMENT
HEADQUARTERS
260 Golden Gate Avenue
San Francisco, California 94102

FIRE COMMISSION

Henry E. Berman	- President	
Curtis McClain	- Vice-President	
Juanita Del Carlo	- Commissioner	
Anne S. Howden	- Commissioner	
Robert Nicco	- Commissioner (Deceased 12/06/85)	
Richard J. Guggenheimer	- Commissioner (Appointed 01/31/86)	

Raymond G. Connors	- Fire Commission Secretary	Room 204
--------------------	-----------------------------	----------

ADMINISTRATION

Chief of Department		
Emmet D. Condon		Room 225

Deputy Chief of Department		
Charles D. Cresci		Room 225

Assistant Deputy Chief		
Robert E. Rose (Retired 04/01/86)		Room 209
Edward J. Phipps (Appointed 04/01/86)		

Division of Fire Prevention and Investigation		
Joseph A. Medina - Fire Marshal		Room 327

Division of Support Services		
Gerald Cullen - Division Chief		Room 210

Division of Management Services		
Oliver C. Storti - Division Chief		Room 312

Personnel Center		
Frank J. Dunphy - Battalion Chief		Room 314

Bureau of Engineering and Water Supply		
Eugene Andersen - Superintendent (Retired 03/31/85)		Room 219
Andrew K. Nielsen - Superintendent (Appointed 12/30/85)		

Fire Department Physician		
William A. Newsom, M.D.		Room 307

Administration

Division of Airports

George E. Berthold - Division Chief S.F. Internat'l Airport
Ray A. Landi - Division Chief (Assigned 07/11/85)

Bureau of Training

Robert E. Donohue - Battalion Chief 2310 Folsom Street
Victor M. Shannon - Battalion Chief (Assigned 09/30/85)

Bureau of Equipment

Gilbert A. Moreno - Lieutenant 2501 - 25th Street

Bureau of Communications

Peter Turdici - Captain 1003 Turk Street

FIRE DEPARTMENT CHAPLAINS

Catholic Chaplain

Father John Greene - Church of the Epiphany

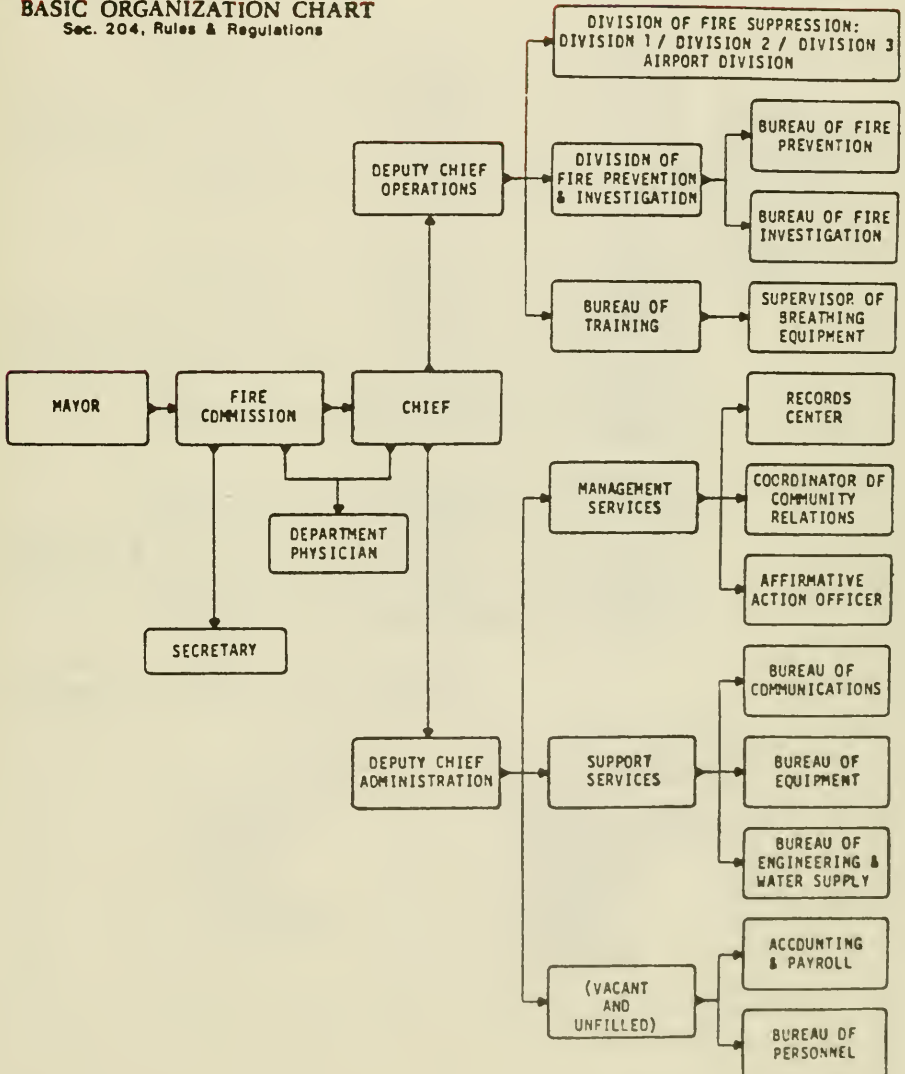
Jewish Chaplain

Rabbi Martin Weiner - Temple Sherith Israel

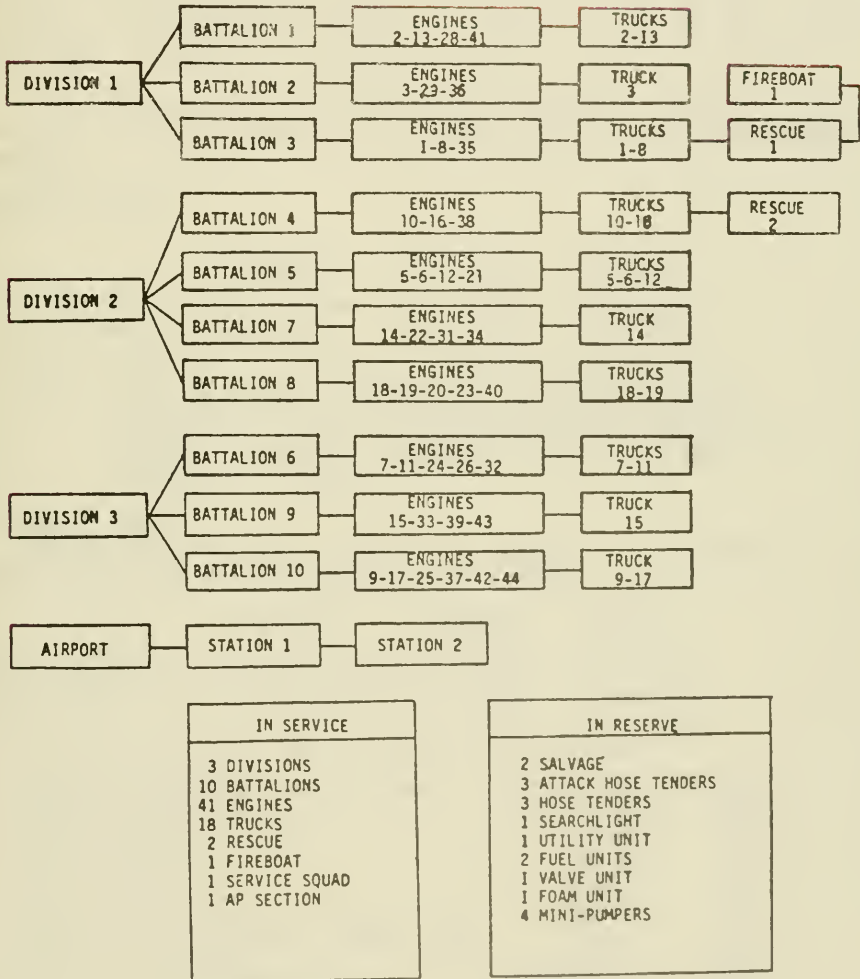
Protestant Chaplain

Reverend T. L. Thomas - Mount Zion Missionary Baptist Church

SAN FRANCISCO FIRE DEPARTMENT
BASIC ORGANIZATION CHART
Sec. 204, Rules & Regulations



SAN FRANCISCO FIRE DEPARTMENT
BASIC ORGANIZATION CHART
Sec. 204, Rules & Regulations



FISCAL

Budget - Personnel Cost

Rates of compensation for uniformed members of the Fire Department are established in accord with procedures set forth in Charter Section 8.405. These procedures include an annual survey of the rates of compensation paid firemen employed in cities in California with a population of 350,000 or more. The Civil Service Commission conducts the survey, and the rates they certify to the Board of Supervisors are the average of the maximum rates paid to firemen in the surveyed cities.

The personnel costs shown below include permanent salaries and wages, overtime, holiday, differential pay and temporary salaries for uniformed members:

Personnel Costs

	<u>1984-1985</u>	<u>1985-1986</u>	<u>Increase</u>
Revised Budget	\$60,780,084	\$64,427,765	\$3,647,681
Actual Expended	\$59,745,604	\$62,997,276	\$3,251,672

Note: Rates of compensation for 1985-1986 increased 2.9775% above 1984-1985. The salary survey resulted in an increase of 1.3072%. A 1.6% cost of living increase was applied to the new salary which resulted in a total increase of 2.9775%.

Budget - Data

During 1985-1986, budget allowances and expenditures compared to 1984-1985 for the Fire Department were as follows:

	<u>1984-1985</u>	<u>1985-1986</u>	<u>Increase</u>
Budget Allowances	\$121,035,825	\$124,519,258	\$3,483,433
Expenditures	\$118,417,062	\$123,017,523	\$4,600,461

Expenditure categories and percentages are as follows:

Personnel services and fringe benefits	\$117,910,546	95.84%
Professional services	458,792	.37
Other contractual services	248,721	.20
Travel/training	5,903	.01
Other services	309,839	.25
Materials and supplies	644,131	.52
Fixed charges (meritorious awards, dues	5,042	.01
Equipment purchases	1,462,976	1.19
Services of other departments	<u>1,971,573</u>	<u>1.61</u>
TOTAL	\$123,017,523	100.00%

Administration

Recapitulation of Budget Allowances and Expenditures:

<u>Description</u>	<u>Budget</u>	<u>Expended</u>	<u>Under/(Over) Expended</u>
Personnel Salary and Wages			
Permanent Salaries - Misc.	\$ 1,626,371	\$ 1,367,997	\$ 258,374
Permanent Salaries - Uniformed	50,335,864	50,265,722	70,142
Permanent Salaries - Craft	763,523	712,208	51,315
Differential Pay	246,946	120,658	126,288
Temporary Salaries	160,605	151,464	9,141
Overtime	47,959	45,444	2,515
Holiday Pay	4,099,014	4,098,436	578
Extended Work Week			
Extended Work Week - City	5,439,775	5,333,526*	106,249
Extended Work Week - Airport	421,178	369,501	51,677
Mandatory Fringe Benefits	54,921,670	54,913,270	8,400
Payment in lieu of Sick Leave	<u>1,286,530</u>	<u>532,320</u>	<u>754,210</u>
Sub-Total	\$119,349,435	\$117,910,546	\$1,438,889
Professional Services	460,298	458,792	1,506
Other Contractual Services	264,817	248,721	16,096
Travel/Training	9,714	5,903	3,811
Other Services	310,000	309,839	161
Materials and Supplies	659,917	644,131	15,786
Fixed Charges			
(meritorious awards, dues)	6,145	5,042	1,103
Equipment Purchases	1,484,107	1,462,976	21,131
Services of Other Departments:			
Police	21,219	21,209	10
Real Estate	8,000	8,000	-0-
Health Dept. - SFGH/HazMat/EAP	29,235	29,235	-0-
Electricity	22,496	22,496	-0-
Central Shops	1,444,594	1,444,594	-0-
Civil Service - Training	300	300	-0-
Civil Service	20,130	16,888	3,242
Water Department	20,000	20,000	-0-
DPW - Street Repair	20,000	20,000	-0-
DPW - Building Repair	48,569	48,569	-0-
Light, Heat & Power	332,940	332,940	-0-
Controller - LSD	7,042	7,042	-0-
Reproduction Bureau	<u>300</u>	<u>300</u>	<u>-0-</u>
TOTAL	<u>\$124,519,258</u>	<u>\$123,017,523</u>	<u>\$1,501,735</u>

*Includes \$543,762 for Vacation Ordinance pay.

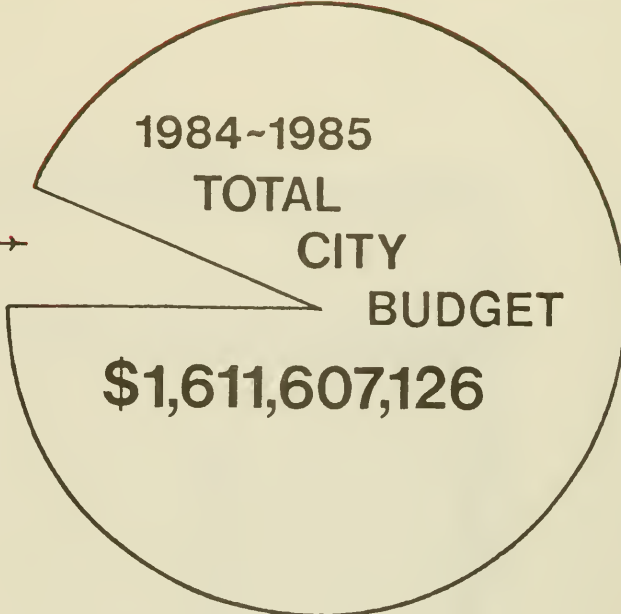
Administration

Department Revenues

Estimated revenues and amounts collected during 1985-1986 were as follows:

<u>Account</u>	<u>Description</u>	<u>Estimated</u>	<u>Collected</u>
7166	Posting fees	\$500,000	\$425,648
7167	Original filing fees	42,066	54,301
7192	Roof & Salvage covers	5,000	2,037
7216	Miscellaneous service charges	<u>40,000</u>	<u>40,646</u>
	TOTAL	<u>\$587,066</u>	<u>\$522,632</u>

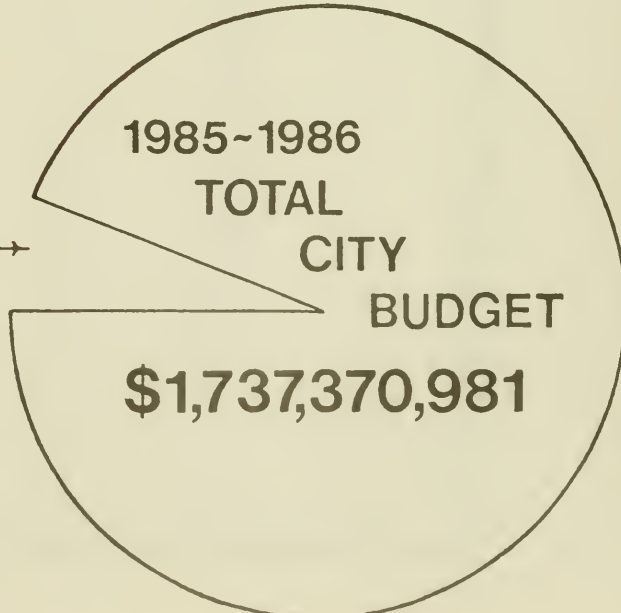
1984-1985
TOTAL
FIRE DEPARTMENT
BUDGET
\$121,035,825
or 7.51%
of the TOTAL
CITY BUDGET



1984-1985
TOTAL
CITY
BUDGET
\$1,611,607,126

A pie chart representing the 1984-1985 total city budget. A small slice is separated from the main circle, with an arrow pointing from this slice to the text on the left which details the Fire Department budget.

1985 - 1986
TOTAL
FIRE DEPARTMENT
BUDGET
\$124,519,258
or 7.17 %
of the TOTAL
CITY BUDGET



1985-1986
TOTAL
CITY
BUDGET
\$1,737,370,981

A pie chart representing the 1985-1986 total city budget. A small slice is separated from the main circle, with an arrow pointing from this slice to the text on the left which details the Fire Department budget.

Administration

SAN FRANCISCO FIRE DEPARTMENT - AUTHORIZED PERSONNEL BUDGET - 1985-1986

NON-UNIFORMED PERSONNEL

SUPPRESSION:	Bureau of Training	1	1426	Sr. Clerk-Typist
PREVENTION:		1	1424	Clerk-Typist
		2	1426	Sr. Clerk-Typist
		2	1446	Secretary II
		3	5215	Fire Protection Engineer
		1	6138	Industrial Hygienist
		1	6140	Haz Mat Program Manager
		5	6280	Fire Safety Inspector I*
		10	6281	Fire Safety Inspector II
INVESTIGATION:		1	1426	Sr. Clerk-Typist
SUPPORT SERVICES:		1	1446	Secretary II
		1	1924	Materials & Supplies Supv.
		1	2708	Custodian
		1	5258	Sr. Mechanical Engineer
		1	5362	Civil Engineer Asst. II
		1	7205	Chief Stationary Engineer
		1	7230	Water System Supv.
		1	7323	Water System Asst. Supv.
		4	7334	Stationary Engineer
		10	7338	Utility Plumber
			A712	Hydrant Service Person
		2	7514	General Laborer
ADMINISTRATION:		5	0160	Member, Fire Commission
		2	1202	Personnel Clerk
		1	1204	Sr. Personnel Clerk
		2	1220	Payroll Clerk
		2	1222	Sr. Payroll & Pers. Clerk
		1	1224	Princ. Payroll & Pers. Clerk
		2	1424	Clerk Typist
		2	1426	Sr. Clerk-Typist
		2	1446	Secretary II
		1	1450	Executive Secretary I
		1	1454	Executive Secretary III
		1	1540	Secretary, Fire Commission
		1	1650	Accountant
		1	1654	Principal Accountant
		3	1708	Sr. Telephone Operator
		1	1842	Management Assistant
		1	1873	Software Analyst
		1	2220	Physician
		1	8165	Workers' Comp. Supv. I
Total Non-Uniformed Personnel		83		
Total Uniformed Personnel		1514		
TOTAL Department Personnel		1597		

* One 6280 is assigned to, and funded by, Airport

Administration

SEPARATIONS FROM SERVICE - UNIFORMED FORCE

Effective Date

0145 Asst. Deputy Chief of Dept.

Robert E. Rose	Apr. 01, 1986	S
----------------	---------------	---

H40 Battalion Chief

Joseph S. Figlietti	Jul. 08, 1985	S
Joseph Del Bene	Oct. 04, 1985	Ind. Dis.

H120 Pilot of Fireboats

William E. Gilikin	Dec. 01, 1985	S
--------------------	---------------	---

H30 Captain

Joseph L. Kocher	Jul. 07, 1985	Ind. Dis.
Raymond C. O'Leary	Jul. 12, 1985	Ind. Dis.
William C. Dunn	Sep. 14, 1985	S
Reinhard J. Young	Oct. 13, 1985	Ind. Dis.
Stephen P. Moriarty	Nov. 07, 1985	S
Peter M. Barulich	Nov. 12, 1985	S
Walter D. Lehigh	Nov. 15, 1985	Ind. Dis.
Anthony P. Rodriguez	Nov. 16, 1985	Ind. Dis.
Rene E. Rey	Dec. 09, 1985	S
Michael P. Sobrano	Jan. 30, 1986	Dec.

H24 Lieutenant, BFI

Timothy J. Riordan	Jan. 21, 1986	S
--------------------	---------------	---

H20 Lieutenant

Adolf Munoz	Jul. 05, 1985	S
Robert J. Wyrsh	Jul. 08, 1985	S
Joseph A. Cliff	Jan. 12, 1985	S
Elbert J. Kimble	Mar. 12, 1985	S

H10 Chief's Aide

Arthur Nelson	Aug. 10, 1985	Ind. Dis.
---------------	---------------	-----------

H4 Inspector

Terry R. Wallace	Dec. 19, 1985	S
------------------	---------------	---

Effective Date

H2 Firefighter

Guido J. Devincenzi	Jul. 06, 1985	Ind. Dis.
Frank J. Slezak	Jul. 17, 1985	S
Richard W. May	Oct. 10, 1985	Res
Albert L. Gervasio	Nov. 03, 1985	S
Thomas J. Connelly	Mar. 01, 1985*	Ind. Dis.
Donald J. Mindham	Jan. 03, 1986	S

* Retroactive to FY 1984-85

TOTAL UNIFORMED FORCE SEPARATIONS

Retirement (Service)	16
Retirement (Ind. Dis.)	9
Resignation (Res.)	1
Deceased (Dec.)	<u>1</u>
Total	27

SEPARATIONS FROM SERVICE - CIVILIAN

Effective Date

7388 Utility Plumber

Elton John	Oct. 01, 1985	Ind. Dis.
------------	---------------	-----------

7334 Stationary Engineer

Thomas W. Ryan	Jan. 09, 1986	S
----------------	---------------	---

6140 Haz. Mat. Program Manager

Marilyn H. Smulyan	May 02, 1986	Res.
--------------------	--------------	------

6138 Industrial Hygienist

Robert G. Stepp (Transfer DPH)	Jun. 30, 1986 (c.o.b.)	
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5258 Senior Mechanical Engineer

Eugene E. Andersen	Aug. 31, 1985	S
--------------------	---------------	---

2708 Custodian

Chester H. Ransom	Jan. 01, 1986	S
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1446 Secretary II

Patricia R. Cosio (Transfer DPH)	Jun. 30, 1986 (c.o.b.)	
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APPOINTMENTS

1985-1986

0145 Asst. Deputy Chief of Dept.

Edward J. Phipps	04-01-86
------------------	----------

H50 Assistant Chief

William M. Shaughnessy	10-10-85
Charles W. Zerbe	12-09-85
Harry F. Brophy	04-09-86

H40 Battalion Chief

Joseph F. McCarthy	07-16-85
Gary J. Torres	10-10-85
George J. Kniese	12-09-85
Alfred P. Kenny	04-09-86
Robert W. Moser	05-03-86

H120 Pilot of Fireboats

Arvid Havneras	07-17-85
----------------	----------

H32 Captain, Div. FP & I

Charles P. Farrell	10-23-85
--------------------	----------

H30 Captain

Anthony G. Sacco (TCS)	07-16-85
Gilbert A. Moreno (Lim/Ten)	07-30-85
Elbert J. Kimble (Lim/Ten)	10-15-85
Joseph A. Cliff (Lim/Ten)	10-15-85
Charles H. Krieger	11-16-85
James R. Cavellini	11-16-85
Harold E. Gamble	11-16-85
John F. Harrington	11-16-85
Mark J. Barbano	11-16-85
Joseph J. Mazeau	11-16-85
John T. Peeff	11-16-85
Paul D. Jones	11-16-85
Paul J. Tabacco	11-16-85
Wayne D. Mitchell	11-16-85
Thomas J. Santoro	11-16-85
James A. Barden	11-16-85

Administration

Elmer M. Ballard	11-16-85
Stephen T. Freeman	11-16-85
Raymond Balzarini, Jr.	11-16-85
Frank Cercos III	11-16-85
Albert L. Thuesen, Jr.	11-16-85
John S. Peoples	11-16-85
Michael J. Morris	12-04-85
Robert G. Boudoures	12-10-85
Richard D. Bracco	04-09-86
James M. Tracey	05-03-86
John J. Lee	05-03-86
Thomas P. Ryan	06-23-86

H22 Lieutenant, BFP & PS

Norman F. Silva	12-10-85
-----------------	----------

H20 Lieutenant (Lim/Ten)

John R. Schnapp	07-01-85
John A. Sudano	07-19-85
Eugene W. Murphy	10-15-85
James M. Fitzpatrick	10-15-85
Peter J. Ackenheil	03-01-86
Lawrence C. Giovacchini	03-01-86
John R. Porter	03-01-86
Philip F. Garcia	03-01-86
Robert T. Gregg	03-01-86
Rene H. Revel	03-01-86
Audry Lee	03-08-86
Michael R. Rogers	03-10-86
Edward F. DeCossio	04-09-86
Rudolph R. Ryan	05-03-86
Robert F. Childs	05-03-86
David J. Adams	06-09-86

H10 Chief's Aide

Carl J. Champion	03-01-86
------------------	----------

H6 Investigator

Ronald H. Morehen	11-30-85
John D. Ford	11-30-85

H4 Inspector

Tyrone J. Diggs (Lim/Ten)	03-01-86
---------------------------	----------

H2 Firefighter (Reappointment)

Richard W. May	02-24-86
----------------	----------

APPOINTMENTS - MISCELLANEOUS

7388 Utility Plumber

Steven I. Van Dyke	11-18-85
Roger J. McMillan	02-10-86

7334 Stationary Engineer

William P. Costello	06-02-86
---------------------	----------

6281 Fire Safety Inspector II

Cynthia Y. W. Woo	07-16-85
Judith A. Nuno	07-30-85
Lloyd J. Conner	08-12-85
General A. James, Jr.	01-06-86
Guadalupe J. Marquez	01-06-86

6280 Fire Safety Inspector I

Lisa Kanter	08-21-85
Manuel J. Pegueros, Jr.	08-21-85
Mary Joanna Boucher	01-06-86

6140 Haz. Mat. Program Manager

Marilyn H. Smulyan (Exempt)	07-01-85
-----------------------------	----------

6138 Industrial Hygienist

Robert G. Stepp	06-16-86
-----------------	----------

5258 Senior Mechanical Engineer

Andrew K. Nielsen	12-30-85
-------------------	----------

2708 Custodian

Jose Ramos, Jr.	05-05-86
-----------------	----------

1924 Materials & Supplies Supervisor

Javid A. Sayed (Reinstatement)	08-01-85
--------------------------------	----------

1654 Principal Accountant

Manuel B. Valle	06-23-86
-----------------	----------

Administration

1650 Accountant

Gregorio Tan

07-01-85

1446 Secretary II

Patricia R. Cosio

08-29-85

Susan M. Keller

08-29-85

1426 Senior Clerk-Typist

Maria DeLeiva

11-18-85

Julian G. Oliver

02-18-86

1220 Payroll Clerk

Vasundara Venkatachari

11-04-85

DISCIPLINARY ACTION

Disciplinary actions taken in the Fire Department during fiscal 1985-86 totaled 9 suspensions ranging from 1 to 5 days.

COMMUNICATIONS CENTER

The Communications Center serves as Dispatch, Radio Communications, and Information Center for the San Francisco Fire Department. As the Dispatch Center, it receives all incoming emergency telephone calls and street box alarms. It evaluates each alarm and determines the necessary apparatus and equipment to dispatch. The Communications Center processed 43,050 alarms during fiscal year 1985-86.

Source of Alarms	<u>1984-1985</u>	<u>1985-1986</u>
Telephone Alarms		
Total	29,128	34,395
Actual Incident	25,647	30,582
Telephone-False Alarms	3,481	3,813
Telephone-Percent Actual	88%	88.91%
Telephone-Percent False	12%	11.09%
Street Box Alarms		
Total	10,059	8,274
Actual Incident	2,999	1,950
Street Box-False Alarms	7,060	6,324
Street Box-Percent Actual	30%	24%
Street Box-Percent False	70%	76%
Greater Alarms		
Second Alarms	49	55
Third Alarms	7	11
Fourth Alarms	2	1
Fifth Alarms	1	2
Total Greater Alarms	59	69

PERSONNEL CENTER

The Personnel Center is responsible for maintaining personnel records, scheduling vacations, the reporting and recording of personnel status, and the balancing of daily manpower strength of the Fire Department, including the hiring of overtime personnel and the filling of vacant classifications.

The total daily manpower strength for fiscal year 1985-1986 was 348 men per day as compared to 358 men per day for the previous year. This drop in total daily manpower strength is due to retirements with no new employments since April, 1982.

The average daily strength was reduced by 57 men on duty per day due to absences for vacations, military leaves, disability leaves, sickness, etc. This is a 16.7 percent average absence rate and exceeds the Fire Department's goal of no more than a 15 percent absence rate. In order to achieve this goal, the Department is following an aggressive policy to reduce absences. Deficiencies in manpower are alleviated by the hiring of overtime personnel.

MANAGEMENT SERVICES

The activities of the Division of Management Services include, but are not limited to, the following:

1. Developing career and educational programs for uniform personnel;
2. Developing and coordinating Human Relations programs for Department personnel;
3. Investigating discrimination and harassment complaints;
4. Participating in internal activities involving labor relations, citizen complaints, or cases that could be cause for disciplinary action by the Appointing Officer or Fire Commission;
5. Coordinating Community Service activities and false alarm abatement programs;
6. Chairing the Merit Advisory Board;
7. Chairing the Vehicle Accident Review Committee and maintaining statistical data.

Educational Programs

Members of the Department may claim Education Promotional Credit for successfully completing required courses. Additional credit may be claimed for a Fire Science degree that meets certain requirements. Courses for each rank are different and are designed to prepare the candidates to function effectively at the level to which promotion is gained.

Educational Promotional Credits have become an important factor in promotional examinations. All members on the recent H-30 Captain eligibility list had requested and received educational points. The amount of points received had a direct bearing on their ranking on the eligibility list.

The Educational Promotional Credit Committee is now processing requests for Educational Promotional Credits from candidates planning to take the H-40 Battalion Chief and the H-50 Assistant Chief examinations which will be given during the coming fiscal year.

Human Relations

The Employees' Assistance Program (EAP), which was established two years ago, has provided a confidential source of help for troubled employees and their immediate families.

Community Service Activities

Field Battalion Chiefs serve as guest speakers on fire prevention and safety at meetings of various organizations such as senior citizen groups, Block-Safe clubs, parent groups, etc. During this past fiscal year, our field chiefs made 27 presentations. This is an increase over last fiscal year; and as this service becomes more commonly known, we hope to do at least 50 such presentations a year.

The Department is pursuing the opportunity to participate in career days at secondary schools. This past year, our Department's representative participated at 17 separate educational and organizational career days and presented the opportunities available for a career in the Fire Department to over 5,000 San Francisco boys and girls.

False Alarm Abatement

A pilot False Alarm Abatement program proved to be successful and will be an ongoing program. The program uses several options to abate false alarms. It solicits help from residents near the fire alarm box, intensifies fire-safety education in the nearby schools, relocates the fire alarm box, and as a last resort, removes the fire alarm box if an alternate means of turning in an alarm is available in the area.

Vehicle Accidents

The reduction of vehicle accidents involving the Department's rolling stock is the continuing objective of the Vehicle Accident Review Board. The Board reviews all vehicle accidents and conducts hearings, when necessary, to determine the cause of each accident. The information thus gathered enables the Board to recommend changes in driving policies and driver training courses.

The 1985-86 fiscal year analysis shows an increase in accidents over fiscal 1984-85. Accidents incurred by Fire Suppression increased by 10, a 11 percent increase; however, the number of accidents in Support Services remained the same. The biggest change occurred with Truck Companies whose accidents went from 16 during fiscal 1984-85 to 24 accidents this past fiscal year.

The goal of limiting vehicle accidents in the three Fire-fighting Divisions to one accident per 13,000 miles traveled was not achieved. Units of the Firefighting Divisions were involved in 85 accidents while traveling 490,227 miles. This is an accident rate of one accident per 5,767 miles traveled.

Vehicle Accidents by Unit Classification

	<u>Fiscal Years</u>				
<u>FIRE SUPPRESSION</u>	<u>81/82</u>	<u>82/83</u>	<u>83/84</u>	<u>84/85</u>	<u>85/86</u>
Deputy & Chief of Department	0	2	0	3	0
Assistant Chiefs	2	1	1	0	1
Battalion Chiefs	5	14	3	3	3
Engine Companies	37	37	45	48	52
Truck Companies	26	23	27	16	24
Hose Tenders	1	3	0	1	0
Salvage Companies	0	0	0	0	0
Rescue Companies	3	6	2	3	4
Service Squad	1	0	1	1	2
Foam Unit	1	0	0	0	0
Fuel Unit	1	0	0	0	0
Utility Unit	0	1	0	0	0
Airport Companies	5	6	11	4	3
	<u>83</u>	<u>93</u>	<u>90</u>	<u>79</u>	<u>89</u>
 <u>SUPPORT SERVICES</u>					
Division of Fire Prevention and Investigation	6	7	6	7	9
Personnel Center	0	0	1	0	0
Bureau of Training	1	0	0	1	0
Bureau of Engineering & Water Supply	10	5	6	9	8
Special Details	0	0	0	0	0
Photo Unit	0	0	1	0	0
Bureau of Equipment	1	2	4	0	1
Headquarters Staff	2	2	1	2	2
Other Vehicles	0	0	1	1	0
	<u>20</u>	<u>15</u>	<u>20</u>	<u>20</u>	<u>20</u>
 <u>GRAND TOTALS</u>	 <u>102</u>	 <u>108</u>	 <u>110</u>	 <u>99</u>	 <u>109</u>

Vehicle Accidents by Classification

Emergency and Non-Emergency -- Driving Combined

	<u>81/82</u>	<u>82/83</u>	<u>83/84</u>	<u>84/85</u>	<u>85/86</u>
Total Accidents	103	108	110	99	109
Judged Preventable	61	78	63	65	70
Total Alarms	36,535	36,071	37,107	39,189	43,050

Type of Accident

Collision with Fixed Objects-- Parked Vehicles					
Buildings, etc.	58	58	45	45	52
Moving Vehicles	37	40	49	44	40
Another SFFD Vehicle	1	2	5	3	5
Other	8	8	11	7	12
Intersection Collision	12	22	21	12	9

Fire Department Vehicle Collided With

A Moving Vehicle	37	40	49	44	40
A Parked or Stopped Vehicle	37	37	32	36	33
Another Fire Department Vehicle	1	2	5	3	5
Fire Department Building or Object	20	21	13	9	19
Other	<u>8</u>	<u>8</u>	<u>11</u>	<u>7</u>	<u>12</u>
<u>TOTAL</u>	103	108	110	99	109

What Fire Department Vehicle Was Doing

At Time of Accident

	<u>81/82</u>	<u>82/83</u>	<u>83/84</u>	<u>84/85</u>	<u>85/86</u>
Moving Straight Ahead	46	55	45	46	43
Turning Right	10	7	14	13	12
Turning Left	9	14	8	2	16
Backing Into Quarters	11	11	7	8	9
Backing (Other)	12	9	15	19	12
Stopped	15	12	21	11	17
<u>TOTAL</u>	<u>103</u>	<u>108</u>	<u>110</u>	<u>99</u>	<u>109</u>

Damage to Fire Department Vehicle

Sideswipes	40	58	55	43	45
Right Angle	5	6	16	12	7
Rear Ends	14	12	17	12	8
Front Ends	15	23	11	11	20
Other	3	0	2	5	6
No Damage	26	11	9	16	23
<u>TOTAL</u>	<u>103</u>	<u>110</u>	<u>110</u>	<u>99</u>	<u>109</u>

Disability Injuries

There was a total of 749 injuries reported during fiscal year 1985-86. Of these, 609 occurred with lost work days (LWD) amounting to a total of 11,105 days lost. Compared to fiscal year 1984-85, these figures represent a 6 percent increase in the total number of injuries and an 14 percent increase in the number of injuries with lost work days. Lost work days increased by 23 percent.

The most common injuries continue to be the same as in previous years, firefighters straining or spraining their backs while handling hose or other equipment at fires.

Administration

	<u>1984-85</u>	<u>1985-86</u>	<u>Change</u>
Total Injuries	702	749	+ 47
LWD Injuries	532	609	+ 77
Lost Work Days	9,048	11,105	+ 2,057
LWD per LWD Injuries	17.00	18.23	+ 1.23

Lost Work Day Injuries

	<u>1984-85</u>		<u>1985-86</u>	
	<u>Injuries</u>	<u>LWD</u>	<u>Injuries</u>	<u>LWD</u>
Engine Companies	248	3796	325	5516
Truck Companies	162	2688	168	2933
Rescue Companies	21	338	19	240
Airport Companies	21	317	22	439
Division 1-2-3	5	197	33	28
All Battalions	28	783	24	721
Fireboat Company	7	51	5	64
Fire Prev. & Investigation	14	310	18	270
Others	26	568	25	894
<u>TOTAL</u>	<u>532</u>	<u>9048</u>	<u>609</u>	<u>11105</u>

Where Injury Occurred

	<u>1984-85</u>		<u>1985-86</u>	
	<u>With LWD</u>	<u>Without LWD</u>	<u>With LWD</u>	<u>Without LWD</u>
1. Fires	293	82	330	65
2. Other Emergencies	53	20	87	22
3. On Department Property	124	44	101	38
4. Drills, Off Department Property	14	7	41	3
5. Inspection Work	10	7	16	3
6. Emergency Vehicular Movement	9	1	4	0
7. Non-Emergency Vehicular Movement	2	1	2	1
8. Routine Duties (Auxiliary Ser.)	7	3	8	2
9. Not Otherwise Classified	11	3	12	6
10. Drill Tower (Training)	9	2	8	0
<u>TOTAL</u>	<u>532</u>	<u>170</u>	<u>609</u>	<u>140</u>

Administration

<u>Parts or Parts of Body Injured</u>	<u>1984-85</u>		<u>1985-86</u>	
	With LWDs	Without LWDs	With LWDs	Without LWDs
1. Eye- - - - -	11	23	17	14
2. Head - - - - -	10	14	14	18
3. Neck (except respiratory system) -	24	5	29	3
4. Shoulder - - - - -	34	5	44	5
5. Arm- - - - -	12	5	21	12
6. Elbow- - - - -	19	4	33	3
7. Wrist- - - - -	16	4	12	7
8. Hand - - - - -	46	28	53	22
9. Back - - - - -	179	14	207	5
10. Leg- - - - -	15	6	31	7
11. Knee - - - - -	79	13	61	11
12. Ankle- - - - -	34	0	38	3
13. Foot - - - - -	30	5	26	10
14. Trunk- - - - -	28	9	50	7
15. Respiratory system - - - - -	7	8	9	2
16. Chest pains- - - - -	9	5	11	3
17. Not otherwise classified - - - - -	15	30	13	17

Nature of Injury

1. Burns and Chemical Burns except eyes	7	9	13	7
2. Burns, eyes- - - - -	0	0	0	1
3. Foreign body in eye or eye irritation	8	18	15	15
4. Strains-sprains- - - - -	356	46	398	29
5. Bruises and contusions - - - - -	75	29	94	26
6. Hernias- - - - -	2	1	3	2
7. Lacerations- - - - -	33	12	21	16
8. Punctures- - - - -	3	11	1	8
9. Dislocations - - - - -	1	0	3	1
10. Fractures and suspected fractures-	16	0	17	1
11. Respiratory system and smoke inhalation	14	11	8	1
12. Dermatitis (skin disorder) - - - -	1	4	13	6
13. Cardio-vascular- - - - -	15	4	12	9
14. Not otherwise classified - - - - -	13	34	25	20

Administration

<u>What Injured Was Doing</u>	<u>1984-85</u>		<u>1985-86</u>	
	With LWDs	Without LWDs	With LWDs	Without LWDs
1. Handling hose - - - - -	105	9	157	29
2. Handling ladders- - - - -	43	9	42	2
3. Handling axes - - - - -	6	2	15	4
4. Handling ceiling hooks- - - - -	2	0	1	2
5. Handling Gleeson Valves - - - - -	4	1	9	0
6. Handling salvage covers - - - - -	1	1	2	0
7. Handling other tools and equipment- - - - -	40	8	45	7
8. Handling other objects- - - - -	17	4	56	4
9. Ventilating - - - - -	11	5	5	1
10. Overhauling - - - - -	33	9	23	9
11. Rescue Work - - - - -	28	8	35	13
12. Locating Fire - - - - -	13	2	19	6
13. Directing Operations- - - - -	13	5	12	4
14. Controlling refrigeration break - - - - -	2	5	1	1
15. Servicing or operating apparatus- - - - -	4	1	8	2
16. Inspection work - - - - -	7	5	9	3
17. Involved in vehicular collision - - - - -	7	1	4	2
18. Getting on or off apparatus - - - - -	48	6	66	3
19. Ascending or descending - - - - -	33	11	19	4
20. Sliding down pole - - - - -	3	0	4	1
21. Exercising- - - - -	9	3	11	5
22. Performing duties allied to cooking	9	9	7	7
23. Not otherwise classified- - - - -	94	46	59	32

How Injury Occurred

1. Struck against- - - - -	40	8	77	26
2. Stepped on- - - - -	6	3	10	2
3. Struck by - - - - -	41	33	32	31
4. Caught in, or, or between - - - - -	13	5	7	1
5. Tripped, slipped, or fell - - - - -	179	29	167	21
6. Lifting or moving - - - - -	97	13	216	14
7. Overexertion - - - - -	76	16	27	4
8. Wetting - - - - -	3	1	8	0
9. Exposure to temperature extremes- - - - -	6	8	1	0
10. Inhalation- - - - -	5	4	2	1
11. Irritation- - - - -	6	18	12	10
12. Absorption- - - - -	0	1	3	1
13. Contact-electrically charged objects	0	0	1	0
14. Contact-heated objects and heated water	1	1	3	2
15. Grasped - - - - -	1	0	3	0
16. Explosions- - - - -	1	1	1	0
17. Backdrafts- - - - -	1	0	1	0
18. Not Otherwise classified- - - - -	63	33	45	27

Injuries Associated with False Alarms - 0

MERITORIOUS COMMENDATIONS

In 1985-86, the Fire Commission accepted the recommendations of the Merit Advisory Board and the Chief of Department concerning acts of heroism performed by the following Department members during the period January, 1985, through December, 1985:

Class "A" Award

Lieutenant Cobden D. Hitchon
Firefighter Robert K. Kim
Firefighter George Ohlson, Jr.

Class "B" Award

T/Captain James R. Cavellini	Firefighter Peter W. Killpack
Lieutenant Frank Scales, Jr.	Firefighter Frank J. Lucier
Firefighter Richard P. Allen	Firefighter Patrick G. Ryan
Firefighter Robert W. Cunningham	Firefighter Hugh B. Smith

Class "C" Award

Captain William T. Cochrane	Firefighter Philip S. Kelber
Lieutenant Robert L. Demmons	Firefighter Thomas J. Kurpinsky
Lieutenant Franklin H. Dunn	Firefighter Robert F. Lamey
Lieutenant William M. Moe	Firefighter James R. McDonagh
C/Aide Eugene A. Baraona	Firefighter Paul M. McHugh
C/Aide Robert E. Blanchard	Firefighter John J. McManus
C/Aide Patrick J. Casserly	Firefighter Richard Pogre
Firefighter Robert M. Ahern	Firefighter Douglas P. Roberts
Firefighter Briant R. Brady	Firefighter William F. Schorr
Firefighter Thomas J. Cordes	Firefighter Nathaniel Winston
Firefighter William F. Hanavan	

Class "D" Award

Firefighter Andrew J. Chrystal	Firefighter Richard W. May
Firefighter Clydelho Frommoethelydo	Firefighter Eugene T. Murphy
Firefighter Floyd W. Gibson	Firefighter Kevin M. Shea
Firefighter James J. Lee	Firefighter Gary D. Tishma

There were six Unit Citations and 47 Letters of Commendations awarded to uniformed member during this period. Additionally, 15 civilians received Certificates of Merit.

FIREFIGHTERS' LOCAL 798 TOY PROGRAM

Each year the San Francisco Fire Fighters' Local 798 Toy Program distributes toys at Christmas to the children of underprivileged families in San Francisco. This is accomplished without cost to the families. The Toy Program collects new and usable toys and monetary donations for the purchase of new toys each year.

Off-duty and retired firefighters and their families volunteered numerous hours to the Toy Program in 1985 to make our 35th Season the most successful to date in terms of children receiving toys. The Toy Program gave toys to 7,414 children in 2,980 families in the hope of providing a Merry Christmas for the children. This was an increase of 24 families and 220 children from 1984.

Each succeeding year since its inception in 1950, the Toy Program has grown. It is the desire of the members of Firefighters' Local 798 and the San Francisco Fire Department that no needy child in San Francisco should be without toys at Christmas time.

The Sixth Annual Xmas Charity Run netted a \$20,000 donation to our Toy Program and was the most successful run to date and guarantees our existence for another year.

The members of San Francisco Fire Fighters' Local 798 and the San Francisco Fire Department thank their many friends--the citizens of San Francisco and many others--for their continued support through the years for this worthwhile San Francisco tradition.

F.L.A.M.E

The San Francisco Fire Department's Fire League of Athletic and Musical Events (FLAME) completed its sixteenth year of service to the youth of San Francisco during fiscal year 1985-1986.

The quality of FLAME's athletic activities continued to improve and the number of participants in the events increased during the past year. FLAME sponsored several baseball leagues, with over 900 boys taking part; and FLAME, again this year, held the largest basketball tournament in California with over 1,500 boys and girls, on over 100 teams, participating. Additionally, a new High School Teen Club Basketball program involving 500 players was offered by FLAME.

FLAME continued to administer girls' basketball with approximately 700 girls in 65 teams participating in the program. And FLAME, in conjunction with several other local service agencies, assisted handicapped and under-privileged children in San Francisco.

With the continued interest and financial support of the active and retired members of the San Francisco Fire Department, FLAME promises to continue to develop programs to serve the youth of the community.

ADVISORY BOARD

The activities of the Advisory Board during the fiscal year 1985-86 included an active participation in the Mayor's "Employee Suggestion Program." The purpose of the program is to improve the responsiveness and efficiency of San Francisco government, which includes Management by Objectives performance measurement and review process. This program contributes to greater productivity and employee satisfaction as well as improved Fire Department operations.

Since the inception of the "Employee Suggestion Program," the Advisory Board has reviewed and evaluated 21 employee suggestions. Ten of these suggestions were approved, with employees receiving cash rewards from \$75 to \$250.

The Advisory Board realizes that one of the Fire Department's greatest assets is the resourcefulness and skills of its members, and it is the goal of the Advisory Board to draw upon these assets.

PIONEER MEMORIAL MUSEUM ST. FRANCIS HOOK AND LADDER SOCIETY

The St. Francis Hook and Ladder Society sponsors the San Francisco Fire Department Pioneer Memorial Museum. The Museum is open to the public Thursday through Sunday from 1:00 to 4:00 p.m. and, through the Society, is staffed by City Guides. During the past year, 6,398 people came to see the displays at the Museum.

The St. Francis Hook and Ladder Society is a non-profit California corporation which is empowered to accept, on behalf of the Fire Commission, gifts to the Museum. If such

gifts are monetary, the Society spends the gifts for the preservation, restoration, and maintenance of apparatus, artifacts, and memorabilia in the collection of the Museum.

During 1985, firefighters of the Department represented the San Francisco Fire Department in grand fashion at firemen's musters in Virginia City, Nevada; Madera; Citrus Heights; and Ukiah. These firefighters, using their off-duty hours at these musters and with the restoration projects for apparatus, donated in-kind time totaling 2,754 hours.

Highlight of the year was the return of the Department's Firemen's Ball which was held in the rotunda of City Hall. Two great bands and the traditional grand march made the evening a festive occasion for the over 900 persons present.

The Society wishes to thank the community for its donations and memorial and monetary gifts to the Museum.

FIREFIGHTING AND RESCUE

In the city limits of San Francisco, the fire suppression forces consist of 41 Engine Companies, 18 Truck Companies, 2 Rescue Squads, a Fireboat Company, and other units which are organized for special purposes. The firefighting companies are organized into 10 Battalions which, in turn, are grouped into three Divisions. A fourth suppression division is located at the San Francisco International Airport and is made up of three firefighting companies.

Firefighting and rescue services, fire prevention, and training are the main concerns of the suppression forces. During fiscal 1985-86, suppression units responded to over 43,000 incidents, over 6,700 of which were fires. In addition, suppression units responded to 13,400 calls for first-aid or resuscitation and over 12,000 other alarms, not including over 10,000 false alarms.

Fire prevention activities of the suppression forces center around the Commercial Residential Inspection Safety Program (CRISP) and the Home Safety Survey. Last fiscal year, the suppression forces inspected nearly 14,000 occupancies under these two programs. Besides identifying and abating hazards found during inspections, fire suppression companies are able to formulate plans for firefighting in the inspected occupancies should they be required to respond to fire alarms in the properties.

The primary responsibility for in-service training of suppression firefighters is given to the company officers. Under the supervision of Battalion Chiefs and the Bureau of Training, the company officers drill the members of their companies in firefighting and rescue techniques, equipment operation and maintenance, and salvage operations among other fire service related topics.

The Bureau of Training supplements this training and also evaluates the performance of individual fire companies and firefighters. In addition, designated chief officers, in cooperation with the Bureau of Training, provide training in specialized areas, such as Hazardous Material incident response, BART and MUNI Metro underground firefighting and rescue, and high-rise building firefighting.

The following section contains a recapitulation of Fire Department response from 1980-81 to 1985-86 and a comparison of the number of incidents by type for 1984-85 and 1985-86. Fires are further classified by source of ignition, material first ignited, and property class.

Suppression

FIREFIGHTING AND RESCUE SERVICES

Recapitulation of Fire Department Response:

	<u>80-81</u>	<u>81-82</u>	<u>82-83</u>	<u>83-84</u>	<u>84-85</u>	<u>85-86</u>
Total Fire	8,080	6,584	6,116	6,356	7,132	6,709
False Alarms	12,558	11,468	11,271	11,187	10,541	10,266
Emergency Other than						
Fire	18,561	18,483	18,684	19,564	21,516	26,075
(Resuscitations)	(2,231)	(2,264)	(1,917)	(1,283)	(1,776)	(1,724)
Total Alarms	39,199	36,535	36,071	37,107	39,189	43,050
Major Alarms	90	71	70	72	59	69

Summary of Incidents by Type

	<u>84-85</u>	<u>85-86</u>
<u>Fires</u>		
Unknown Type Fire- - - - -	1	2
Building Fire- - - - -	2,596	2,484
Trees, Brush, Grass- - - - -	907	778
Vehicle Fire - - - - -	1,132	1,194
Refuse Fire- - - - -	2,284	2,077
Outside Structure- - - - -	100	90
Explosion- - - - -	6	2
Outside Spill/Leak - - - - -	-	-
Mobile Home- - - - -	1	-
Other Fire - - - - -	<u>105</u>	<u>82</u>
<u>TOTAL</u>	<u>7,132</u>	<u>6,709</u>

False Alarms

Malicious/Mischief - - - - -	8,624	7,933
Bomb Scare, No. Bomb - - - - -	22	39
System Malfunction - - - - -	1,575	1,932
Unintentional- - - - -	<u>320</u>	<u>362</u>
<u>TOTAL</u>	<u>10,541</u>	<u>10,266</u>

Emergency Other Than Fire

Rescue Calls

Resuscitation-Positive - - - - -	1,098	1,088
Resuscitation-Negative - - - - -	678	636
First Aid- - - - -	8,024	11,677
Rescue/Extrication - - - - -	103	85
Potential Jumper - - - - -	21	19
Elevator/Escalator - - - - -	339	360

Suppression

Rescue Calls (Cont)

	<u>84-85</u>	<u>85-86</u>
Trapped in Auto- - - - -	157	114
Cliff/Landslide- - - - -	13	13
Aircraft Incident- - - - -	-	-
Drowning - - - - -	8	11
<u>TOTAL</u>	10,441	14,023

Overpressure

Steam Rupture- - - - -	45	31
Air/Gas Rupture- - - - -	109	101
Water Heater/Boiler- - - - -	68	69
<u>TOTAL</u>	222	201

Hazard Conditions

Washdown Blood - - - - -	41	44
Washdown Gas/Oil, etc. - - - - -	1,613	1,544
Explosive Removed- - - - -	5	6
Excessive Heat - - - - -	200	188
Power Lines Down - - - - -	92	121
Arc/Short Electric - - - - -	436	451
Refrigeration Leak - - - - -	5	3
Smell of Natural Gas - - - - -	14	16
Building Collapse- - - - -	6	8
Aircraft Alert - - - - -	78	95
<u>TOTAL</u>	2,490	2,476

Good Intent Calls

Smoke Scare/Smell- - - - -	1,323	1,290
Wrong Location - - - - -	4	8
Control Burn - - - - -	45	33
Alarm Bell Ringing - - - - -	1,195	1,557
Recall/No Service- - - - -	1,127	1,522
<u>TOTAL</u>	3,694	4,410

Service Calls

Cover a Window - - - - -	267	248
Lock-Out/Lock-In - - - - -	658	615
Water Removal- - - - -	778	816
Smoke/Odor Removal - - - - -	197	225
Animal Rescue- - - - -	23	21
Assist Police- - - - -	219	239
Broken Hydrant - - - - -	182	181
Boat Sinking - - - - -	8	14
Loose Structure- - - - -	68	89
Broken Sprinkler - - - - -	69	76
<u>TOTAL</u>	2,469	2,524

Suppression

<u>Hazardous Material Spill</u>	<u>84-85</u>	<u>85-86</u>
Unknown- - - - -	22	25
Explosives - - - - -	7	12
Compressed Gas Leak- - - - -	122	128
Flammable Liquid Spill/Leak- - - - -	60	75
Flammable Solids - - - - -	3	2
Oxidizing/Organic Peroxides- - - - -	4	2
Poisons- - - - -	7	5
Radioactive Material - - - - -	2	-
Corrosions - - - - -	15	9
Other Regulated Material - - - - -	<u>32</u>	<u>47</u>
<u>TOTAL</u>	274	305

<u>Miscellaneous Calls</u>	1,926	2,136
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Fires - Source of Heat of Ignition

Heating Systems- - - - -	171	145
Cooking Equipment- - - - -	890	862
Air Conditioning Equipment - - - - -	25	25
Electrical Distribution Equipment- - - - -	444	397
Electrical Appliances- - - - -	125	138
Special Equipment- - - - -	316	308
Processing Equipment - - - - -	23	19
Service Equipment- - - - -	38	36
Smoking Material - - - - -	3,739	3,456
Other Objects- - - - -	1,181	1,096
Undertermined- - - - -	183	230

Fires - Type of Material Ignited

Gas- - - - -	60	56
Flammable Liquid - - - - -	675	721
Volatile Solid - - - - -	342	291
Chemical-Metal-Plastic-Paint - - - - -	192	191
Natural Product- - - - -	1,670	1,547
Fabric-Textile Fur - - - - -	647	676
Material with Oil- - - - -	53	86
Other- - - - -	123	89
Undetermined - - - - -	171	235
Wood-Paper - - - - -	3,202	2,870

Fires - Number and by Property Class

Public Assembly		
Amusement-Fixed - - - - -	7	3
Amusement-Variable- - - - -	4	2
Churches- - - - -	14	8
Libraries, Courts - - - - -	5	7

Suppression

Fires - Number and by Property Class

84-85

85-86

Public Assembly (Cont)

Eating, Drinking- - - - -	91	72
Terminals, Station- - - - -	12	10
Theaters- - - - -	6	9
Clubs - - - - -	9	2

Educational

School, Non-Resident- - - - -	21	13
Business Schools- - - - -	6	9
Universities- - - - -	9	5
School, Residential - - - - -	-	-
Unclassified- - - - -	1	1

Institutional

Care of the Aged- - - - -	11	9
Care of the Young - - - - -	4	5
Sick or Injured - - - - -	57	48
Physical Restraint- - - - -	1	4

Residential

One & Two Family- - - - -	529	481
Apartments- - - - -	1,320	1,366
Rooming House - - - - -	2	1
Hotel - - - - -	172	178
Motel - - - - -	4	3
Dormitory - - - - -	4	7
Mobile Home - - - - -	1	2
Other - - - - -	4	1

Store & Office

Food, Beverage- - - - -	23	38
Textile, Clothing - - - - -	14	4
Household, Repair - - - - -	16	14
Specialty - - - - -	17	15
Recreation- - - - -	8	8
Professional- - - - -	12	17
Motor Vehicle - - - - -	12	12
General Item- - - - -	6	4
Offices - - - - -	122	105

Basic Industry

Communications- - - - -	2	4
Utilities - - - - -	46	34
Agriculture - - - - -	-	-
Forestry- - - - -	-	2
Mineral Products- - - - -	-	-
Nucleonics- - - - -	-	-
Laboratories- - - - -	-	2

Suppression

	<u>84-85</u>	<u>85-86</u>
Manufacturing		
Food- - - - -	22	10
Beverage, Tobacco - - - - -	3	2
Textiles- - - - -	1	0
Wearing Apparel - - - - -	7	3
Wood, Paper - - - - -	31	15
Chemical- - - - -	5	2
Metal - - - - -	9	8
Vehicle - - - - -	7	3
Other - - - - -	10	3
Unclassified- - - - -	4	5
Storage		
Textile - - - - -	1	-
Food, Tobacco - - - - -	3	-
Petroleum, Alcohol- - - - -	-	-
Wood, Paper - - - - -	4	4
Chemical, Plastic - - - - -	-	-
Metal - - - - -	3	-
Vehicle - - - - -	13	14
General - - - - -	73	48
Agricultur- - - - -	-	1
Unclassified- - - - -	-	-
Special Properties		
Construction- - - - -	20	34
Special Structures- - - - -	12	3
Outdoor - - - - -	935	799
Road- - - - -	2,240	2,036
Equipment Areas - - - - -	3	-
Railroad- - - - -	1	-
Aircraft Areas- - - - -	-	1
Water Areas - - - - -	1	1
Unclassified- - - - -	2	1
Mobile Property		
Road-Passenger- - - - -	1,030	1,070
Road-Freight- - - - -	108	124
Rail Transport- - - - -	1	4
Water Transport - - - - -	4	6
Air Transport - - - - -	1	3
Heavy Equipment - - - - -	4	9
Special Vehicles- - - - -	-	-
Unclassified- - - - -	1	1

DIVISION OF AIRPORTS

The Division of Airports provides fire control service delivery for the 5,200 acre San Francisco International Airport located in San Mateo County. Over 30,000 persons are employed at this \$680 million complex owned by the City and County of San Francisco and operated by the Airports Commission. Over 70,000 passengers are processed daily..

Sixty-seven employees are assigned to the Division of Airports. Sixty-two of these are assigned to suppression duties to provide the established staffing of 17 on-duty personnel around the clock. Additionally, a Division Chief, an Operations/Training Supervisor, a Deputy Fire Marshal, a Fire Safety Inspector, and a Stenographic Secretary handle the administrative and support functions of the Division.

The service delivery provided by the Division includes EMS, Crash/Fire/Rescue, structural fire protection, water rescue, and petro-chemical tank farm protection as well as the Fire Prevention and Inspection activities.

The Division also provides training in First Aid, CPR, and Fire Extinguisher use for Airport employees and tenants. Of special note is that, for the eighth consecutive year, San Francisco International Airport has received the Aviation Safety Institute Award for Crash/Fire/Rescue preparedness.

The 1985-86 fiscal year total service delivery amounted to 1,845 incidents, down 1.1 percent from the previous fiscal year. The summary of incidents by type is included in the City-wide suppression data.

A new Oshkosh Crash/Fire/Rescue vehicle went on-line in March, 1986. This vehicle carries 3,000 gallons of water, 410 gallons of Aqueous Film Forming Foam (AFFF), and 500 pounds of Halon. It can deliver 1,500 gallons of AFFF per minute at a distance of 300 feet for Crash/Fire/Rescue operations.

Suppression

AIRPORT STATISTICS

	<u>1985-86</u>
Fires	14
False Alarms	91
Rescue Calls	1,021
Overpressure	3
Hazardous Condition	265
Good Intent Calls	245
Service Calls	37
Hazardous Material Spill	16
Other	<u>135</u>
TOTAL	1,827

FIRE SUPPRESSION INSPECTION PROGRAMS

The Commercial Residential Inspection Safety Program (CRISP) is an inspection program performed by the local fire suppression personnel and is targeted primarily at businesses and large residential buildings. Large industrial buildings exceeding 100,000 square feet, properties classified as high-rise buildings, and one and two-family dwellings are excluded from this program. Family dwellings, however, are inspected by fire suppression personnel under the Home Safety Survey Program as discussed later in this section.

CRISP is designed not only to identify and classify buildings for computer data storage and retrieval but also to enable first-due companies to identify hazards and prepare pre-fire plans. When fire suppression companies identify hazardous conditions, they issue a "Notice of Violation" and set a time limit for abatement of the hazard.

During fiscal year 1985-86, the coordination of CRISP was turned over to the Bureau of Fire Prevention. The inspector assigned is responsible for record keeping and screens all forms for compliance with any and all applicable codes, ordinances, and regulations. In addition to this, the inspector assigned serves as liaison between the fire suppression and fire prevention personnel.

In fiscal year 1985-86, fire suppression companies inspected 10,659 buildings under the program, found 470 violations, and issued "Notices of Violation" to the responsible parties. Suppression personnel obtained 349 corrections which reflect an abatement rate of 74.3 percent slightly lower than the 77.3 percent abatement rate average over the 9-year life of the program.

A recapitulation of CRISP is as follows:

<u>Year</u>	<u>Inspections</u>	<u>Violations</u>	<u>Corrections</u>	<u>Percent</u>
1980-81	10,408	827	570	68.9%
1981-82	5,937	880	561	63.8%
1982-83	7,702	874	809	83.1%
1983-84	11,247	641	450	70.2%
1984-85	11,040	841	637	75.7%
1985-86	10,659	470	349	74.3%

Suppression

The Home Safety Survey Program is carried out by the fire suppression companies to identify hazards in one and two-family dwellings. The effectiveness of the program relies upon the cooperation of the home dwellers, for it is with their consent and participation that inspections are made. When their consent is granted, fire suppression personnel inspect the home for hazards, such as stored rubbish, flammable liquids, electrical wiring, and heating hazards. With the cooperation of the home dwellers, any hazards identified are abated.

During the past fiscal year, fire suppression personnel approached 9,659 homes and were granted permission to inspect 3,165 of these homes.

BUREAU OF TRAINING

During the past fiscal year, 1985-86, the Bureau of Training met all the objective performance levels of the M.B.O. Program.

The Bureau of Training developed and implemented a Driver Improvement Program. The Driver Improvement Program delivers theory as well as practical hands-on experience concerning proper handling and accident avoidance techniques for vehicle operation. This program should assist the Department in reducing preventable accidents.

The Bureau of Training recently established a Video Communications Unit (S.F.F.D. VidCom). The VidCom Unit has been and will be documenting emergencies, assisting the Arson Squad in the collection of fire evidence, and acting as an additional medium for intra-departmental communication. However, the VidCom Unit's main objective will be video assisted training for probationary and in-service firefighters. The VidCom Unit is currently involved in producing video tapes of training evolutions to establish a video library for use by the Bureau of Training as well as by the fire stations via ViaCom Cablevision's public access channel (Channel 25). What was once subject to misinterpretation of the printed word can now be documented, demonstrated, communicated, and reviewed whenever necessary.

The Bureau of Training did not train any probationary firefighters during fiscal 1985-86 due to current litigation involving the Civil Service Entrance Examination. Although,

Suppression

all probationary firefighter training material was extensively reviewed and updated. In addition, a Captain's Probationary Course was developed and implemented during this fiscal year. A Lieutenant's Probationary Course has been developed and will be implemented pending the adoption of an H-20 Lieutenant's eligibility list.

Sylvie Jacobson, a member of the Civil Service Commission's E.E.O.C. Unit, conducted a Sexual Harassment Training Course for all training officers and select officers from the fire suppression force.

The Bureau of Training is currently reviewing the S.F.F.D. Drill Manual and is developing new lesson plans to replace or augment the old lesson plans.

In addition, the Bureau of Training co-operated with Dr. Frank Verducci in conducting the Department-wide Physical Fitness Program. The Bureau of Training has also been working in conjunction with private contractor, Paul Buffone, in the administration of the First Responder Training Course at the Bureau of Training.

FIRE AUXILIARY RESERVE

The Fire Auxiliary Reserve, under the supervision of the Battalion Chief of the Bureau of Training, is organized to augment the San Francisco Fire Department in times of disaster. The members of the Fire Reserve are a group of dedicated citizens whose services are volunteered to the City and County of San Francisco without remuneration. Throughout the year, they are specially trained in cooperation with the Bureau of Training personnel in weekly training exercises and special drills held outside the Bureau of Training confines. The Fire Reserve members receive on-the-job training by observing and assisting at greater alarm fires, by participating in the ride-along program held at several firehouses throughout the City, and by carrying out orders received from the Chief of Department or from the Deputy Chiefs.

During the past year, the Fire Reserve has received extensive training in the deployment of the portable 5-inch water main system as well as having participated in joint exercises with regular members of the San Francisco Fire Department. At present, the Fire Reserve is also receiving training in the areas of earthquake preparedness, heavy

rescue, basic firefighter training in the Firefighter Class 1 Program, and first aid and cardiopulmonary resuscitation (CPR) techniques. Some of the Fire Reserve members have also assisted other City agencies, such as the Department of Public Health Paramedic Division, Office of Emergency Services, and BART and Muni with disaster as well as communication drills. In the event of a major disaster, the Fire Reserve will be ready to assist in the safeguarding of the lives and property of the citizens of San Francisco and is the backbone of volunteers in times of a major earthquake or conflagration.

As of June 30, 1986, the membership of the San Francisco Fire Auxiliary Reserve stood at 34 members. The Fire Auxiliary Reserve participated in 47 training exercises--for a total of 1,495 man-hours--and responded to 11 greater alarm fires at which they contributed a total of 110 working man-hours.

HAZARDOUS MATERIALS PROGRAM

With the increased usage of toxic and otherwise hazardous materials in the environment, an increased risk of a potentially serious exposure to the citizens of San Francisco has developed. To meet this potential hazard, the San Francisco Fire Department placed into service a Hazardous Materials Unit on October 1, 1982.

The Hazardous Material Response Unit (Haz Mat 1) is quartered at Fire Station 36, and the Hazardous Materials Response Team is made up of the members of Engine Company 36 and is backed up by the members of Rescue Squad 1 and Rescue Squad 2. Further support is given to the unit by inspectors from the permit section of the Fire Prevention Bureau, by two industrial hygienists, by several environmental health inspectors at the Department of Public Health, and by the Coast Guard.

During the past fiscal year, the team has been called to incidents involving overturned tank trucks and to incidents where only a few ounces of material have been released. It is not necessarily the quantity released that determines the severity of a hazardous materials incident but the hazards presented and the system impacted that are of concern.

The unit has been outfitted with identification equipment, hazard assessment equipment, personnel protection equipment, and control and containment equipment. The equipment is upgraded regularly. Training for personnel this past fiscal year has been mostly in-house and is an on-going process.

HIGH-RISE TRAINING PROGRAM

The broad goal of the High-Rise Committee remains as it has in the past--to increase the proficiency of the SFFD as it pertains to firefighting strategy and tactics in high-rise buildings.

To further this goal, the following activities were conducted during the last fiscal year. Approximately once a month, a drill was held at a high-rise building in the downtown area. At this drill, a fire problem was simulated to give both firefighting units and building security personnel practice at the routine that they would follow at an actual incident. On almost every Saturday during the year, an orientation and elevator operations drill was conducted by a Battalion Chief for various units throughout the Department. In addition, familiarization/orientation inspections were conducted on a regular basis by first-due units in the high-rise battalions.

BAY AREA RAPID TRANSIT AND MUNI METRO TRAINING

One of the primary objectives for training in the BART and MUNI Metro underground systems continues to be the conducting of a full-scale drill in each of these facilities quarterly. Four such drills, with post-drill critiques, were conducted in the MUNI system; however, due to scheduling problems, only three drills were held on the BART system during this past fiscal year. One of these exercises was held jointly with the Oakland Fire Department in the Transbay Tube. The BART drill in June, 1986, was conducted underground between 24th Street and Glen Park stations and was greatly enhanced by the attendance of more than 250 volunteer "victims" from the Mission District community.

During the June drill, the new BART underground radio system was utilized for the first time. Using 36 radios purchased by BART and furnished to our Department, firefighters now have reliable communications throughout the BART subways. Additional channels on these radios allow communication with State OES units, the Coast Guard, and San Francisco Ambulance Dispatch.

Through the efforts of the Bureau of Training, all members of our 18 truck companies, the 18 engine companies housed with them, and both rescue squads participated in hands-on jacking drills of MUNI light rail vehicles.

HEALTH AND PHYSICAL FITNESS PROGRAM

The San Francisco Fire Department's Health and Physical Fitness Program was devised to foster a healthier, more active life style for firefighters. In order to accomplish this objective, each participant received an individualized exercise program, a coronary risk profile, a pulmonary functions report, an exercise electrocardiogram, a job related task report, and a percent of body fat measurement. The individualized exercise program consists of flexibility exercises (stretching), weight training (strength), and cardiorespiratory exercises (walking, jogging, and stationary bicycling).

As of July 31, 1986, approximately one-third of the firefighters have been retested. The members who have not participated in the program are those on light duty or those having a medical excuse.

The Health and Physical Fitness Program for the San Francisco Fire Department started in 1980. The following information relates to the outcome of the program in terms of the number of lost-work-day injuries, lost-work days due to injuries, disability retirements, estimated cost effectiveness of the program, results of abnormal exercise electrocardiograms, and changes in the job tasks over an eight-month period.

Using 1980-81 as the base year, the information for engine, truck, and rescue companies indicated that the number of injuries involving lost-work days was less for each of the following five years. The number of work days lost and the number of disability retirements were less during four of the five years.

Yearly Comparisons

	<u>1980-81</u>	<u>1981-82</u>	<u>1982-83</u>	<u>1983-84</u>	<u>1984-85</u>	<u>1985-86</u>
Number of injuries (% change*)	564	561	492	542	431	512
Lost work days (% change*)	8,925	7,848 (-13%)	7,932 (-12%)	9,199 (+3%)	6,822 (-24%)	8,689 (-3%)
Disability (% change*)	14	11	11**	11**	14***	8**

- * Percent change from 1980-81
- ** One was not service connected, but is included in the cost effectiveness calculations.
- *** Two were not service connected, but are included in the cost effectiveness calculations.

Based on 1985-86 information, the approximate cost to the City and County of San Francisco is \$240.87 for a lost work shift of 12 hours and \$481.74 for a 24-hour tour, which San Francisco firefighting personnel presently work, and the approximate cost of an average disability retirement based on 1984-85 information is \$375,750. Using the preceding information, the average savings to the San Francisco Fire Department during the past five years was \$1,335,449 per year (lost work days, \$199,199; disability retirements, \$1,136,250.) The total amount for the past five years is \$6,677,245. (If the past six years, 1980-86 are compared to the preceding four years, 1976-80, before the initiation of the Health and Fitness Program, the savings would have been over \$5 million per year.)

A direct relationship between the Health and Physical Fitness Program and cost effectiveness is extremely difficult to determine. If it is assumed that the program results in a 50 to 75 percent reduction in the days lost and disability retirements granted, the savings to the San Francisco Fire Department would be between \$3.35 and \$5.01 million for five years.

During the program's coronary testing stage, 13 firefighters were identified as having abnormal exercising electrocardiograms. Ten of these firefighters received medical treatment and are still working as active firefighters. Three others received disability retirements.

A group of approximately 100 firefighters participated in a physical fitness program for eight months. Improvement on the six job-related tasks amounted to over a 33 percent average increase in the relative position of the firefighters in the group when the post-test scores were compared to the pre-test scores.

BUREAU OF FIRE PREVENTION

During the fiscal year 1984-85, the Bureau of Fire Prevention continued to expand upon its long-range planning. The decentralization of the district inspectors to coincide with the battalion districts is almost completed. The Management By Objective goals for the conducting of building inspections by the district inspectors was met and exceeded for a total of 40,201 inspections. This figure is due to the placement of inspectors into their respective districts with less travel time and more production.

As the Bureau computer is used more for statistical analysis and supervision, new means of interpreting the data has led to greater management of the districts by their inspectors as well as giving the Bureau supervisors a new management tool.

Civilianization of the Bureau has led to the hiring of two new Fire Safety Inspectors I and two Fire Safety Inspectors II. The new members have been assigned to public education, to annual high-rise inspection, and to specialist inspection areas.

A reevaluation of Bureau priorities in the last quarter of the year showed that annual inspections of all San Francisco Fire Department permits need to be conducted. A comprehensive program to that end was developed and implemented by the newly named permit section of the Bureau.

The Department's annual Fire Prevention Day marking the anniversary of the great Chicago fire was held at the San Francisco Zoo, where over 8,000 men, women, and children enjoyed the displays of fire equipment of San Francisco, Brisbane, and the California Department of Forestry who brought Smokey the Bear to the Zoo. Various fire safety educational messages were taught to the children as well as their parents.

Inspections - District Inspections

New Construction Inspections	1,041
Alteration Inspections	2,808
Permit Inspections	2,528
Complaint Inspections.	631
 Total Re-Inspections	 21,751
Total Inspections.	40,201
Addresses Inspected.	9,532

Inspection - Special Occupancy

School Inspections	547
Institution Inspections.	637
Public Assembly Inspections.	593

Building Permits

Applications for Building Permits were processed and forwarded to District Fire Inspectors assigned to Headquarters for continuing inspection of construction until completion and acceptance.

Miscellaneous Reports and Communications

Reports from Battalion Chiefs were received concerning special building inspections, and these reports were processed for investigation and abatement of violations.

Notices of Code Violations were issued to obtain compliance with state and local safety codes.

ANNUAL HIGH RISE INSPECTION PROGRAM

The annual High-Rise Inspection Program is a program which schedules and conducts inspections of all high-rise buildings in San Francisco within each calendar year. At the present time, there are 427 buildings in San Francisco which require an annual inspection. During the fiscal year 1985-86, legislation was prepared which allows the City of San Francisco to recover the costs of these inspections by charging an inspection fee. The cost of the inspections was determined to be \$3.40 per 1,000 square feet.

The legislation was passed, signed by the Mayor, and became effective on July 1, 1986. The Program members are one H-4 Fire Inspector, two Fire Safety Inspector II's, one Fire Safety Inspector I, and a data entry clerk-typist under the supervision of a Lieutenant of the Bureau of Fire Prevention.

This program is a state-mandated program which, if not conducted by members of the San Francisco Fire Department, will be administered by the State Fire Marshal's Office. The Fire Department is required to submit to the State Fire Marshal's Office a written report of the inspections.

Because the potential for loss is great in each of these structures, the annual High-Rise Inspection Program has become an important part of the Bureau of Fire Prevention.

CHILD FIRESETTER COUNSELING PROGRAM

The Child Firesetter Counseling Program is an educational intervention and companionship program which matches specially trained Fire Department personnel with children up to the age of 14 years (the legal "age of accountability" in California) who have displayed a serious or repetitive firesetting tendency. All children enrolled in the program are screened by a licensed clinical psychologist to assure that they can benefit from educational intervention. Children are usually enrolled for one year and are referred to as "Firehawks" during their period of enrollment.

The Child Firesetter Counseling Program is designed to teach fire safety, home safety, and first-aid as well as acceptable ways to express anger, reasonable ways to resolve conflict, and effective ways to express a child's needs. Children are taught problem solving on a level appropriate to their age and maturity and are exposed to community activities which can serve to improve their self-esteem.

In fiscal year 1985-86, there were 60 fires set by children, as reported in Fire Incident Reports, with a total property and contents loss of \$276,131. This resulted in an increase of 22 percent over the number of reported child fireset incidences during the previous fiscal year and a 39 percent increase in total property and contents loss over that period. In fiscal year 1985-86, the average fire set by a child resulted in \$4,602 of property and contents loss which is an increase from the average of \$4,059 the previous period.

The above is consistent with the experience of previous reporting periods which have shown a consistent increase in the number of fires set by children and the total loss for each of those fires. Fortunately, however, unlike the previous reporting period (fiscal year 1984-85), there were no deaths or serious injuries caused by child firesets during this period.

We are pleased to report that during the current reporting period, the Firefighters for Youth Foundation was incorporated as a legal nonprofit corporation to receive donations for the work of the Child Firesetter Counseling Program and other youth activities sponsored by the San Francisco Fire Department and its members. Donations will be used to pay for group outings, educational materials and activities, the costs of screening both children and firefighter/counselors by our consulting psychologists, and other expenses of helping children in San Francisco who need to learn how to live a proud and safe life.

FIRE MARSHAL--SAN FRANCISCO INTERNATIONAL AIRPORT

The Airport Fire Marshal has the responsibility of ensuring that all applicable fire protection codes are enforced. During pre-construction (plan checking), plans are received and pertinent corrections noted. The construction phase is monitored periodically to ensure that all safety equipment is installed as per code. Post-construction inspections are conducted to ensure that all safety features are operational and continually maintained in proper working order.

Phase II (Boarding Area "B") of the South Terminal is nearing completion. The fire alarm and fire sprinkler systems along with the building construction are progressing and due for completion by September, 1986. The West Entrance Building and the fire hydrant system are completed and operational.

Phase III (Boarding Area "C") is under way and due for completion in 18 to 22 months.

The Airport Fire Marshal's office is also responsible for the continual inspections and maintenance of the fire alarms and extinguishing systems at the Airport.

The following is a list of the various types of inspection performed by this office:

- Fuel Spills
- Fuel Tankers
- Fuel Tanks (above and below ground)
- Fire Extinguishers
- Alarm Systems
- Exit Lights
- Exit Doors
- Wet Standpipes/Hose Cabinets
- Baggage Belts
- Stove Flues
- Fuel Hydrants
- Hazardous Material Disposals
- Sprinkler Systems
- Aircraft Fueling Procedures
- Fire Hoses

FIRE MARSHAL--SAN FRANCISCO PORT COMMISSION

The Port Fire Marshal's Office was in an upbeat mode during the fiscal year ending June 30, 1986. Fire Technology (Fire Protection Engineering, Public Fire Education, and Fire Code Enforcement) and the ideas of the Port Engineering Staff converged in many practical and achievable ways in handling the many major construction and renovation projects underway during the period. The fundamental strength of Port Fire Protection and Fire Safety programs lies in the quality and cooperation of the Port Staff and it's tenants.

Current major Port projects include the following:

Fisherman's Wharf Breakwater--Construction was begun on this project. Improvement in the maintenance of underpier sprinkler systems, natural gas mains, and water mains will be realized as rough seas will no longer be pounding against these utility lines during high tides.

Jefferson Street Seawall Repairs--Construction has been completed and will result in increased safety for tourists and fisherman and for the firefighters who respond to the area for rescues, medical calls, and other emergencies.

Pier 35, Fire Protection Up-grade--In cooperation with the Port Plumbing Department, new standpipe piping and hose cabinets were ordered and partial installation begun in the fiscal year. Old exposed hoses, nozzles, and fire extinguishers were subjected to vandalism, tampering, and the effects of acid vehicle exhaust residue. The new installations will curtail these problems and be ready to meet the needs of increased cruise ship activity and increased population on the pier.

Pier 70, Toxic Waste Cleanup--Overall cleanup has been completed and confirmed by positive laboratory tests. Official clearance to release the building for occupancy was received from the State and Environmental Protection Agency.

Pier 7, Public Access--The design phase is 90 percent complete. Since there will be no superstructure, underpier sprinklers were not required. However, we have an agreement for providing a 6-inch water main the entire length of the pier to allow the Fireboat to pump into the emergency above-ground hose beginning at the foot of Broadway Street.

Pier 80 Projects--The projects include improved fire access at the gate house, improved fire alarm transmitting access, relocation of water mains and fire hydrants to readily identifiable locations under light poles.

A statistical breakdown of the activities of the Port Fire Marshal are as follows:

	1984-85	1985-86
Pier survey and inspections, sea wall lots and buildings	637	597
Reinspections and resurveys	104	87
Total number of inspections and surveys	741	684
Plan Checking - new construction	36	39
Plan Checking - alterations	246	311
Total number of plans checked	282	350
Lectures and first aid classes	25	23
Welding and burning permits	302	252
Welding and burning inspections	395	419
Other permits issued	301	432
Emergency night and weekend calls	14	19
Port administration meetings attended	49	104
Fire Marshal staff and training meetings attended	134	47
Fire extinguishers issued, exchanged and/or inspected	2,734	2,769

BUREAU OF FIRE INVESTIGATION/ARSON TASK FORCE

The goal of the Bureau of Fire Investigation is to conduct comprehensive investigations of fires, including all of the factors influencing or contributing to the fire ignition sequence and the communication of fire. Activities include accidental fire investigation to determine the origin and cause, criminal investigation when arson is determined, and the reduction of arson incidents.

The determination of origin and cause provides the foundation for the development of the factual and legal theory underlying the incident. Effective analysis of legal rights and duties depends upon this determination. An analysis of the origin, cause, and fire spread often leads to a complete formulation of liability and causation which will ultimately be presented at trial.

The extensive and detailed information obtained from these comprehensive investigations also makes it possible to develop the most effective regulatory codes, standards, inspection and suppression procedures, and similar actions designed to prevent or control fire.

On April 4, 1986, an explosion and fire occurred at the Bay View Industrial Park, a three-story structure which contained over 125 separate occupancies. This fifth alarm fire taxed the resources of the suppression forces in extinguishing the fire as well as the resources of the Bureau of Fire Investigation in locating and identifying victims and fatalities. Nine people died in this fire and over fifteen individuals were treated at hospitals for burns and other serious injuries. A criminal investigation by Federal authorities is under way and the Bureau of Fire Investigation is preparing records that will be required for civil claims and lawsuits which exceed \$46 million to date.

Below is a comparison of the relevant Bureau of Fire Investigation/Arson Task Force statistics for fiscal years 1984-85 and 1985-86:

	<u>1984-85</u>	<u>1985-86</u>	<u>Change</u>
Incidents Investigated	505	562	+11%
Accidental Fires	113	84	-25%
Incendiary Fires	342	414	+21%
Felony Convictions	25	21	-16%
Misdemeanor Convictions	13	24	+84%

ARSON EARLY WARNING SYSTEM

The goal of the Arson Early Warning System (AEWS) is to reduce arson-for-profit fires and negligence fires by identifying potential high-risk buildings through the examination of records in conjunction with on-site inspections. Relevant information is provided to insurers so that they may take steps to minimize risk by cancelling a policy, increasing restrictions, or not insuring at all.

During the past fiscal year, the responsibility for the Arson Early Warning System program was assigned to a fire investigator rather than a fire prevention inspector. This allows for the monitoring of incendiary fire trends, and the investigator, in addition to pro-active efforts, may be utilized for the purpose of background research of public records after an incendiary fire occurs. The fire investigator is also responsible for obtaining, evaluating and maintaining records of insured fire losses within the City and County of San Francisco. An automated system has been developed on a micro-computer for this purpose.

FIRE FATALITY SUMMARY

Twenty-two people perished in fire during the 1985-86 fiscal year. This was a considerable increase over fiscal year 1984-85 in which ten civilians lost their lives as a result of fire. Nine of the fatalities, which occurred during fiscal year 1985-86, died in an explosion and fire at the Bayview Industrial Park on April 4, 1986. Thirteen lives were lost in residential occupancies.

Fire fatalities are compared for the past five years in the following chart:

	<u>1981-82</u>	<u>1982-83</u>	<u>1983-84</u>	<u>1984-85</u>	<u>1985-86</u>
Fatalities	21	22	23	10	22
<u>Occupancy</u>					
Apartments	6	8	9	6	6
Dwellings	14	7	8	4	7
Hotels	0	1	5	0	0
Other	1	6	1	0	9 *
<u>Age Group</u>					
Under 15	3	3	3	1	1
15 thru 64	14	10	13	4	15
Over 64	4	9	7	5	6
<u>Cause of Fire</u>					
Smoking Mat.	8	13	5	6	7
Heating-Cooking	4	4	5	3	2
Incendiary	2	1	1	0	1
Electrical	3	3	9	1	3
Other	4	1	3	0	9 **
* Industrial					
** Explosion					

DIVISION OF SUPPORT SERVICES

The Division of Support Services is responsible for the following bureaus and programs:

- Bureau of Equipment,
- Bureau of Engineering and Water Supply,
- Maintenance of Buildings and Grounds,
- Coordination with the Office of Emergency Services,
- Preparation of Environmental Impact Reports,
- Preparation of Capital Improvement Programs,
- Implementation of Bond Improvement Programs.

Fire Station Construction-Reconstruction Program

Reconstruction of Fireboat/Engine 35--This project cannot proceed until the responsibility of Port property maintenance is resolved. The substructure needs major work in order to rebuild the fire station. No progress can be reported at this time.

The planning for a new facility to house the Bureau of Equipment has been stalled. The Fire Department requested transfer of funds to start the project, but this has not been received without serious reservation by the Mayor's Office. It appears that the Fire Department Master Real Estate Plan will have to undergo a major revision.

Property Maintenance

Funding provided for deferred maintenance has been expended. Much work on all Department properties still needs to be done. Until new funding becomes available, only repairs of an emergency nature will be taken on.

The apparatus door project is still under way. The contractor has stated that the installation of the doors will commence about October 1, 1986, on the initial six stations. Two additional stations will be included with 1985-86 funds and three stations with 1986-87 funds. Hopefully, all eleven stations will be completed by the end of fiscal year 1986-87.

Evaluation of the Department's buildings and grounds is accomplished on a quarterly schedule and during the periodic inventory of all Department property. A physical count and

description of City and County property in all fire stations and a structural evaluation of the buildings provide information for establishing Capital Improvement requests. During the past two fiscal years, the following number of Department buildings were surveyed:

<u>1984-85</u>	<u>1985-86</u>
56	55

And the number of Building Repair Requests that were processed are as follows:

<u>1984-85</u>	<u>1985-86</u>
1,339	1,321

Fireboat Reconstruction

Much of the remaining work scheduled to be done as part of the fireboat reconstruction has been completed; new radio, radar, and other electronic devices are operational. A new all purpose skiff is in service. Stability tests and repainting are expected to be done in the fall of 1986. The Phoenix will also undergo an upgrading of the firefighting systems including foam, CO2, and heavy stream applications. These improvements give additional capabilities to a first-class, modern firefighting vessel.

Salvage Operations

Fire Department salvage operations assist in the protection of buildings and their contents, both personal and mercantile, from damage caused by fire and water. Support Services' personnel work with fire suppression units to account for salvage covers used and for sprinkler heads replaced by firefighting companies to restore sprinkler systems to service after a fire.

Salvage operations statistics for fiscal years 1984-85 and 1985-86 are as follows:

	<u>1984-85</u>	<u>1985-86</u>
1. Roof Covers used (No Charge)	59	55
2. Salvage Covers used (No Charge)	98	45
3. Rental Fees billed	\$3,880	\$1,760
4. Sprinkler Heads replaced	158	117

OFFICE OF EMERGENCY SERVICES

During the fiscal year, Division of Support Services assisted in the development of the San Francisco Fire Department's Earthquake Preparedness Plan which is designed to insure adequate water supplies and delivery systems in the event of a disaster.

Division of Support Services has also continued its program of close cooperation with the State of California O.E.S. as Region II's alternate fire coordinator. The Fire Department's Communications Center is now equipped with telenet access to the State O.E.S. F.I.M.'s computer. This allows up-to-date information on the commitment of equipment and manpower to O.E.S. emergencies occurring within the State.

For the second year, a program of two training courses has been offered in "Wildland Fire Fighting" and "Task Force Leader," in cooperation with the California Division of Forestry.

As part of the State O.E.S. system, the Fire Department took delivery of a new, 1986, Ford 1000 GPM Triple Combination pumper, replacing the older O.E.S. pumper. The new unit is now quartered at Station 25.

BUREAU OF ENGINEERING AND WATER SUPPLY

The Bureau of Engineering and Water Supply, under the direction of a Senior Mechanical Engineer (Water Supply Superintendent), is responsible for the engineering and maintenance of the Auxiliary Water Supply System (High Pressure System); the maintenance of the hydrants connected to the domestic water supply system; the maintenance of Fire Department cisterns; the inspection of standpipes on public and private buildings; and any day-to-day professional engineering assistance required by the Fire Department.

The Chief Stationary Engineer of the two high pressure pumping stations was able to reduce the start-up time for the eight high pressure pumps from nine minutes down to forty seconds by properly sizing and valving their control piping. These high pressure pumps are now quick response units.

The inlet sump for the pumps at Pumping Station No. 1 was thoroughly cleaned of debris and silt. Pump No. 3 will require a complete tear down in order to determine why it will not pump properly.

The Bureau of Engineering and Water Supply maintains approximately 120 miles of pipe which supplies 1,454 fire hydrants in the High Pressure System, and maintains 8,114 low pressure fire hydrants connected to the domestic water supply system.

The objectives of the Bureau are to service 30 percent of the hydrants each year, to paint 25 percent of the hydrants each year, and to operate one-third of the estimated 3,600 valves installed in the High Pressure System, each year. Except for the testing of the AWSS valves, the Bureau of Engineering and Water Supply met these objectives as follows:

	<u>Objective</u>	<u>Performance</u>
H.P. Hydrants Serviced	436	534
H.P. Hydrants Painted	364	381
H.P. Valves Tested	1,200	931
L.P. Hydrants Serviced	2,434	2,920
L.P. Hydrants Painted	2,029	2,015

BUREAU OF EQUIPMENT

The Bureau of Equipment (BOE) is staffed by one officer and eight firefighters. It is responsible for all scheduled and unscheduled maintenance, the setting of repair priorities, the inspection of the Department's motorized apparatus. And the Bureau acts as liaison between the Fire Department and the Purchasing Department's Central Repair Shops.

During the past fiscal year, 1985-86, the Bureau of Equipment met all of its goals for the testing of fire pumps and ladders; however, the Bureau fell short of its MBO goals for the issuance of hose due to a shortage of funds and a change in department priorities during the year.

The Bureau of Equipment responded to nearly 60 greater alarms during fiscal 1985-86 where the Bureau assisted the units at the scene either through the use of specialized equipment brought to the incident by members of the Bureau or by performing other duties as ordered by the incident commander.

An important responsibility of the Bureau is the repairing of the Department's apparatus when the Central Repair Shops are unavailable (nights, weekends, and holidays). The Bureau also assists the Health Department by

doing emergency repairs and tire changes for their ambulances. All together, the Bureau assisted other city departments on 28 different occasions last year.

The Bureau of Equipment handled over 13,000 requests for materials, equipment, or supplies and responded to 245 calls with the Heavy Wrecker (Tow Truck 1) during the past year. Additionally, the BOE played a large part in the development of the Department's use of 5-inch, large diameter hose and portable hydrant, high pressure system. The system has proven to be very successful and should be a benefit for the entire city and its citizens. The system is being copied for use throughout the country.

New Equipment-1986

The Fire Department received some new apparatus during the past fiscal year. These purchases were possible because no new apparatus has been purchased since 1983, in which the Department received delivery of one pumper and one 100-foot tractor-drawn aerial; due to purchasing problems, apparatus budgeted for was not purchased. Because of this, we are receiving or have received the large number of vehicles listed below.

Five Pumpers, triple combination, 1500 GPM, 500-gallon water tanks. These pumpers are powered by Cummins NTC 350 diesel engines. The chassis are Kenworth L-700's.

Two Quintuples, 1500 GPM, 300-gallon water tanks with 75-foot, rear mounted aerial ladders; the ladders have pre-plumbed, 1200 GPM ladder nozzles. The power plants are Detroit 8V92, Silver Streak diesels. The chassis are Spartan Gladiators.

Two Aerials, 100-foot, tractor-drawn with tiller, powered by Cummins NTC 400 diesel engines.

All of these apparatus are being assembled to San Francisco Fire Department specifications by Steel Draulic Products Inc. of Waynesboro, Pennsylvania. All of the pumpers and both quints have been delivered and will be in service by the end of summer, 1986. The tractor-drawn aerials should be delivered and in service by early fall, 1986.

The Department also received, by a donation from P.G.& E., a new CO₂ Unit. S&C Ford was awarded the contract to assemble the unit. The vehicle was delivered this summer, 1986, and is presently being tested for service training. The primary use of this unit is for the fighting of underground vault fires.

The new apparatus are going to be assigned to the following companies or stations:

The engines to Engine Companies 2, 26, 28, 32 and 41;

The aerials to Truck Companies 1 and 7;

The quints to Engine Companies 20 and 43;

The CO₂ Unit to Station 13.

The Department has on order (from the 1985-86 budget) two pumpers; one 100-foot, tractor-drawn aerial truck; one heavy rescue squad truck; one batterywagon/hosetender; five compact automobiles; and five sub-compact automobiles.

The pumpers are to be built by 3D Apparatus Company of Wisconsin. The aerial is to be built by LTI (Ladder Towers, Inc.) of Pennsylvania. The Rescue Squad and the Hose Tender bid went to S&C Ford of San Francisco with the trucks to be assembled by Welch Fire Apparatus of Wisconsin. All of the apparatus are due to be delivered before the end of 1987.

SAN FRANCISCO FIRE DEPARTMENT APPARATUS

In-Service Engine Companies.....	41
In-Service, 100-foot, Tractor-Drawn Aerial Companies....	17
Heavy Rescue Companies.....	2
In-Service Chiefs' Automobiles.....	16
Relief Engines.....	15
Relief, 100-foot, Aerial Trucks.....	8
85-foot Snorkel.....	1
Relief Rescue Trucks.....	2
Cliff Rescue Truck.....	1
54-foot Squirt/Hose Tenders.....	3
Battery Wagon/Hose Tenders (5-inch large diameter Hose).	3
Light Wagon.....	1
Foam Wagon.....	1
In-Service Air Truck (Breathing Air).....	1
Relief Air Truck (Breathing Air).....	1
Hazardous Material Truck.....	1
Relief Automobiles.....	5
Miscellaneous Vehicles.....	25

WATER RESCUE TEAM

The San Francisco Fire Department's Water Rescue Team is under the direction of Assistant Chief Gerald Cullen, and the Field Operations Supervisor is Battalion Chief William Richardson. There are two teams of divers; Team 1 consists of all San Francisco Fire Department divers stationed within the city limits of San Francisco and is under the direct supervision of Captain John Reboltz, Rescue Squad 2; Team 2, is located at the San Francisco International Airport and is under the supervision of Firefighter John McManus.

Because of numerous water-related rescues along Ocean Beach and the adjoining cliffs, we recently trained the members of Station 14 in surf rescue techniques. The Cliff Rescue Unit automatically responds to these incidents to augment the actions of the Water Rescue Team. Firefighter David Dyc has been assigned as liaison between the Fire Department and the National Park Service to coordinate drills and rescues between the two departments.

During the past fiscal year, our Department has been involved in over 40 water-related emergencies. Two of these incidents resulted in extremely heroic efforts by our members. One rescue saved the life of a young girl off Ocean Beach, and the second resulted in rescuing a man trapped in a submerged automobile at the bottom of China Basin.

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1986-87

SAN FRANCISCO FIRE DEPARTMENT



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Annual Report
1986 - 1987

CITY AND COUNTY OF SAN FRANCISCO
SAN FRANCISCO FIRE DEPARTMENT

EDWARD J. PHIPPS, *Chief of Department*
MICHAEL T. FARRELL, *Deputy Chief...Operations*
GERALD C. CULLEN, *Deputy Chief...Administration*



280 GOLDEN GATE AVENUE
SAN FRANCISCO, CALIFORNIA, 94102
(415) 861-8000, EXTENSION 281

December 1, 1987

Honorable President and
Members of the Fire Commission

Ladies and Gentlemen:

In accordance with Charter Section 3.501, I respectfully submit the San Francisco Fire Department's Annual Report for fiscal 1986-87.

During 1986-87 the Department experienced a changing of the guard as Chief of Department Emmet Condon retired after faithfully serving the city of San Francisco for 40 years. His guidance and experience will definitely be missed. Also retiring with Chief Condon was Deputy Chief Charles Cresci who so ably handled personnel matters for the previous 4 1/2 years.

Joining my team were two new deputy chiefs: Michael Farrell was placed in charge of our suppression forces and has overall responsibility for Fire Training and Prevention. Gerald Cullen, moving up from our Support Services Division, was placed in charge of our administrative activities which includes Management Services and Support Services.

Our new administrative team is committed to a policy of open communication and more effective use of management personnel. To this end, I have set up numerous committees to advise and help me with the many policy decisions that must be made.

With Fire Prevention in the forefront of our programs, San Francisco adopted a new fire code bringing it into conformity with the Uniform Fire Code. During this year, we also instituted an inspection fee schedule for Plan Checking and Hi-Rise Inspections--effectively defraying the cost for these services. At the same time, we were able to deliver our Fire Prevention message to over 35,000 people through our Public Education Program.

Honorable President and
Members of the Fire Commission
Page 2
December 1, 1987

In November, 1986, the citizens of San Francisco passed Proposition A, a bond issue that allows the Fire Department to increase its readiness to handle major disasters such as earthquakes. Through this bond issue, we will be able to improve our water supply and storage facilities, increase our portable water delivery system and purchase much needed equipment and apparatus to insure a safe auxiliary water system.

In 1986-87 Fire Suppression experienced a moderate increase in total responses from 43,050 to 44,498. While our actual fires decreased 6,709 to 6,267, our medical and miscellaneous responses jumped ten per cent, 26,075 to 28,762. These figures indicate that our Fire Prevention activities are showing positive results and the public is relying on the San Francisco Fire Department more than ever before for emergency medical response.

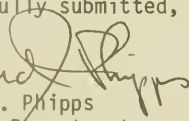
For the ninth consecutive year our Airport Division received the Aviation Safety Institute Award for Crash/Fire/Rescue preparedness.

The fiscal year has also been a busy one for our Bureau of Training. Not only have they maintained the in-service training schedules but they have spent the better part of the year preparing for a new recruit class which will include women--a first for the San Francisco Fire Department.

As you can see from this report, it has been a hectic year. The San Francisco Fire Department would not have been able to maintain its degree of excellence without the dedication of its members. I would like to thank the officers and members for a job well done, in spite of the fact that we have not been able to hire any new members in over five years.

I would especially like to thank Mayor Dianne Feinstein, the Fire Commission, and the Board of Supervisors for their continued support of the San Francisco Fire Department's goals--the protection of lives and property of all San Franciscans.

Respectfully submitted,


Edward J. Phipps
Chief of Department

EJP:ff

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SAN FRANCISCO FIRE DEPARTMENT
HEADQUARTERS
260 Golden Gate Avenue
San Francisco, California 94102

FIRE COMMISSION

Henry E. Berman	- President	
Curtis McClain	- Vice-President	
Juanita Del Carlo	- Commissioner	
Richard J. Guggenheimer	- Commissioner	
Anne S. Howden	- Commissioner	
Raymond G. Connors	- Fire Commission Secretary	Room 204

ADMINISTRATION

Chief of Department		
Emmet D. Condon (Retired 01-24-87)		
Edward J. Phipps (Appointed 01-24-87)		Room 225
Deputy Chief of Department		
Charles D. Cresci (Retired 03-21-87)		
Michael T. Farrell (Appointed 03-21-87)		Room 225
Assistant Deputy Chief		
Edward J. Phipps (Reassigned and appointed Chief of Department 01-24-87)		Room 209
Gerald C. Cullen (Appointed 01-24-87)		
Division of Fire Prevention and Investigation		
Joseph A. Medina - Fire Marshal		Room 327
Division of Support Services		
Gerald Cullen - Division Chief (Reassigned and appointed Assistant Deputy Chief 01-24-87)		Room 210
Michael T. Farrell - Division Chief (Assigned 01-24-87)		
Howard L. Slater - Division Chief (Assigned 03-23-87)		
Division of Management Services		
Oliver C. Storti - Division Chief		Room 312
Gary J. Torres - Battalion Chief - Mgt. Info. Svcs. (Assigned 02-01-86)		
Personnel Center		
Frank J. Dunphy - Battalion Chief		Room 314

Administration

Bureau of Engineering and Water Supply
Andrew K. Nielsen - Superintendent

Room 219

Fire Department Physician
William A. Newsom, M.D.

Room 307

Division of Airports
Ray A. Landi - Division Chief

S.F. Internat'l Airport

Bureau of Training
Victor M. Shannon - Battalion Chief
(Reassigned 02-14-87)
Frederick F. Postel - Battalion Chief (Assigned 02-16-87)

2310 Folsom Street

Bureau of Equipment
Gilbert A. Moreno - Special Services Officer

2501 - 25th Street

Bureau of Communications
John Mandas - Battalion Chief (Assigned 08-06-86)
Peter Turdici - Captain

1003 Turk Street

FIRE DEPARTMENT CHAPLAINS

Catholic Chaplain

Father John Greene - Epiphany Church
Father John Wester - Mission Dolores (Appointed 03-11-87)

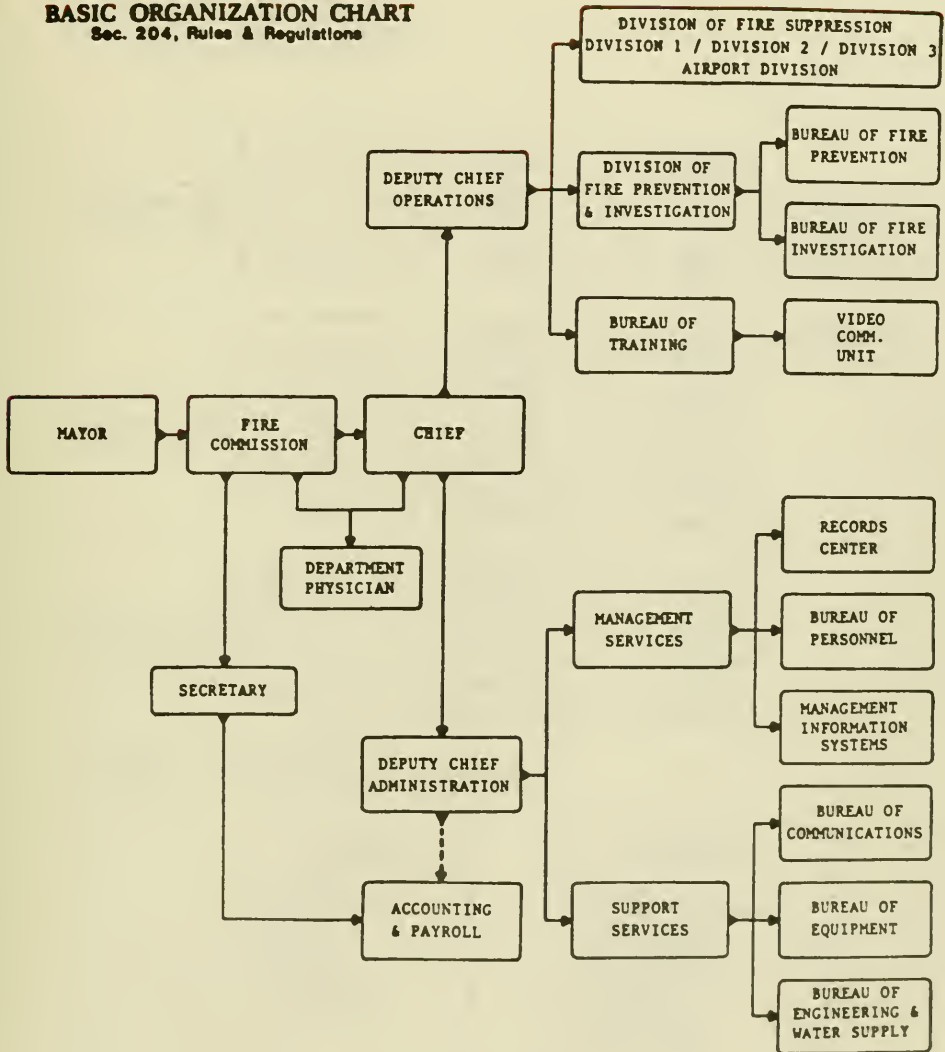
Jewish Chaplain

Rabbi Martin Weiner - Temple Sherith Israel

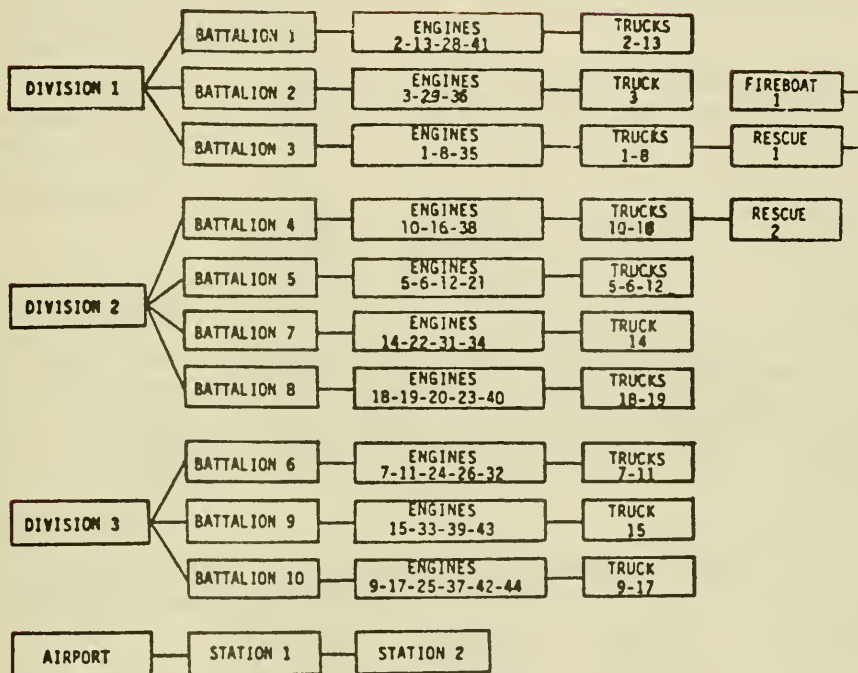
Protestant Chaplain

Reverend T. L. Thomas - Mount Zion Missionary Baptist Church

SAN FRANCISCO FIRE DEPARTMENT BASIC ORGANIZATION CHART Sec. 204, Rules & Regulations



SAN FRANCISCO FIRE DEPARTMENT
BASIC ORGANIZATION CHART
 Sec. 204, Rules & Regulations



IN SERVICE
3 DIVISIONS
10 BATTALIONS
41 ENGINES
18 TRUCKS
2 RESCUE
1 FIREBOAT
1 SERVICE SQUAD
1 AP SECTION

IN RESERVE
2 SALVAGE
3 ATTACK HOSE TENDERS
3 HOSE TENDERS
1 SEARCHLIGHT
1 UTILITY UNIT
2 FUEL UNITS
1 VALVE UNIT
1 FOAM UNIT
4 MINI-PUMPERS

FISCAL

Budget - Personnel Cost

Rates of compensation for uniformed members of the Fire Department are established in accord with procedures set forth in Charter Section 8.405. These procedures include an annual survey of the rates of compensation paid firemen employed in California cities with a population of 350,000 or more. The Civil Service Commission conducts the survey, and the rates they certify to the Board of Supervisors are the average of the maximum rates paid to firemen in the surveyed cities.

The personnel costs shown below include permanent salaries and wages, overtime, holiday, differential pay and temporary salaries for uniformed members:

Personnel Costs

	<u>1985-1986</u>	<u>1986-1987</u>	<u>Increase</u>
Revised Budget	\$64,427,765	\$67,162,472	\$2,734,707
Actual Expended	\$62,997,276	\$66,314,305	\$3,317,029

Note: Rates of compensation for 1986-1987 increased 6.2117% above 1985-1986. Prop I (approved 11-04-86) required new salary survey for cities that approved pay raises after August 25th. There were two such surveys (11-04-86 and 01-26-87) in 1986-87. There was no cost of living increase.

Budget - Data

During 1986-1987, budget allowances and expenditures compared to 1985-1986 for the Fire Department were as follows:

	<u>1985-1986</u>	<u>1986-1987</u>	<u>Increase</u>
Budget Allowances	\$124,519,258	\$131,809,223	\$7,289,965
Expenditures	\$123,017,523	\$130,010,410	\$6,992,887

Expenditure categories and percentages are as follows:

Personnel Services and Fringe Benefits	\$125,376,705	96.44%
Professional Services	547,512	.42
Other Contractual Services	216,285	.17
Travel/Training	8,214	.01
Other Services	263,268	.20
Materials and Supplies	557,200	.43
Fixed Charges (meritorious awards, dues)	3,908	.00
Equipment Purchases	915,703	.70
Services of Other Departments	2,121,615	1.63
TOTAL	\$130,010,410	100.00%

Administration

Recapitulation of Budget Allowances and Expenditures:

<u>Description</u>	<u>Budget</u>	<u>Expended</u>	<u>Under/(Over) Expended</u>
Personnel Salary and Wages			
Permanent Salaries - Misc.	\$ 1,681,813	\$ 1,559,480	\$ 122,333
Permanent Salaries - Uniformed	52,647,007	52,357,824	289,183
Permanent Salaries - Craft	828,337	790,243	38,094
Differential Pay	131,983	90,071	41,912
Temporary Salaries	134,318	128,569	5,749
Overtime	32,636	32,636	0
Holiday Pay	4,491,728	4,201,696	290,032
Extended Work Week			
Extended Work Week - City	8,330,420	8,301,741*	28,679
Extended Work Week - AP & Port	497,479	483,412**	14,067
Mandatory Fringe Benefits	57,315,336	56,551,472	763,864
Payment in lieu of Sick Leave	<u>1,063,855</u>	<u>879,561</u>	<u>184,294</u>
Sub-Total	\$127,154,912	\$125,376,705	\$1,778,207
Professional Services	547,718	547,512	206
Other Contractual Services	217,974	216,285	1,689
Travel/Training	11,235	8,214	3,021
Other Services	263,270	263,268	2
Materials and Supplies	560,432	557,200	3,232
Fixed Charges			
(meritorious awards, dues)	5,485	3,908	1,577
Equipment Purchases	926,580	915,703	10,877
Services of Other Departments:			
Police	22,000	22,000	0
Health Dept. - SFGH/HazMat/EAP	2,364	2,364	0
Electricity	26,303	26,303	0
Central Shops	1,538,124	1,538,124	0
Civil Service - Training	18,605	18,605	0
Civil Service	7,076	7,076	0
Water Department	44,610	44,610	0
DPW - Street Repair	10,000	9,999	1
DPW - Sewer Service Charges	45,781	45,781	0
DPW - Building Repair	13,500	13,499	1
Light, Heat & Power	379,970	379,970	0
Controller - ISD	12,984	12,984	0
Reproduction Bureau	<u>300</u>	<u>300</u>	<u>0</u>
TOTAL	<u>\$131,809,223</u>	<u>\$130,010,410</u>	<u>\$1,798,813</u>

*Includes \$365,336 for Vacation Ordinance pay; includes \$5,250,000 reappropriated from Permanent Salaries & Mandatory Fringe Benefits.

**Includes \$19,011 (\$15,851 - Airport, \$3,160 - Port) for Vacation Ordinance pay.

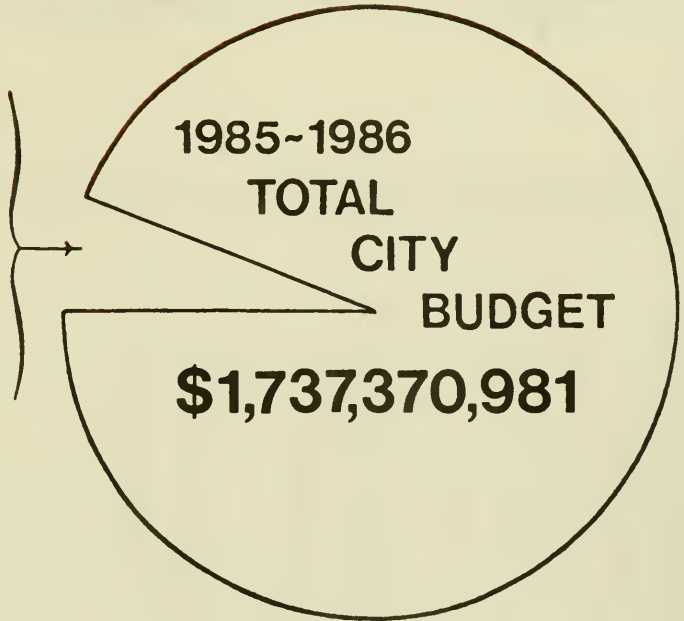
Administration

Department Revenues

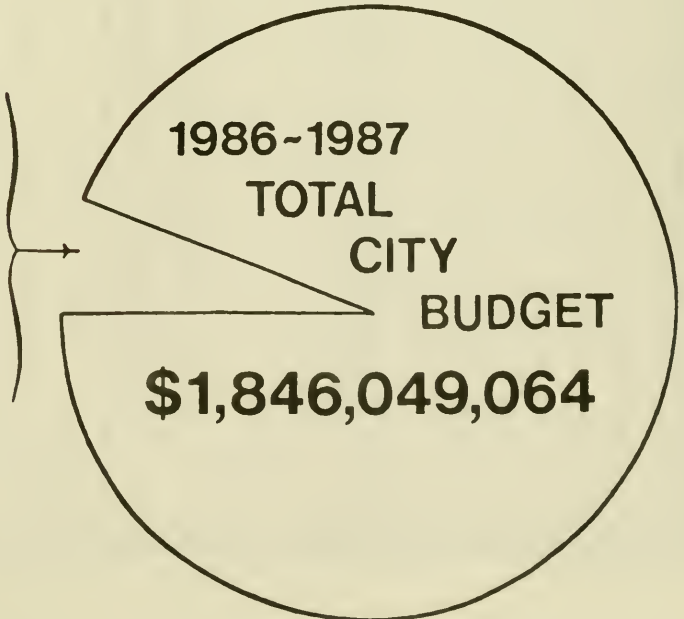
Estimated revenues and amounts collected during 1986-1987 were as follows:

<u>Account</u>	<u>Description</u>	<u>Estimated</u>	<u>Collected</u>
7166	Posting fees	\$312,934	\$406,146
7167	Original filing fees	42,066	67,106
7192	Roof & Salvage covers	5,000	2,051
7216	Miscellaneous service charges	40,000	40,033
7299	High Rise Inspection Fees	<u>313,391</u>	<u>218,944</u>
	TOTAL	<u>\$713,391</u>	<u>\$734,280</u>

1985 - 1986
TOTAL
FIRE DEPARTMENT
BUDGET
\$124,519,258
or 7.17 %
of the TOTAL
CITY BUDGET



1986 - 1987
TOTAL
FIRE DEPARTMENT
BUDGET
\$131,809,223
or 7.14 %
of the TOTAL
CITY BUDGET



SAN FRANCISCO FIRE DEPARTMENT - AUTHORIZED PERSONNEL BUDGET - 1986 / 1987

NON-FIREFIGHTING
SUPPRESSION:
Bureau of Training
PREVENTION:
INVESTIGATION:
SUPPORT SERVICES:
Bureau of Equipment
ADMINISTRATION:
Personnel Center
Communications Bureau
Management Services

TOTAL

CHIEF/DEPUTY CHIEF

DISTRICTS 1 to 10

ENGINE COMPANY 1

ENGINE COMPANY 3

ENGINE COMPANY 5
ENGINE COMPANY 6

ENGINE COMPANY 7
ENGINE COMPANY 8

ENGINE COMPANY 9
ENGINE COMPANY 10

ENGINE COMPANY 11
ENGINE COMPANY 12

ENGINE COMPANY 13
ENGINE COMPANY 14

ENGINE COMPANY 15
ENGINE COMPANY 16

ENGINE COMPANY 17
ENGINE COMPANY 18

ENGINE COMPANY 19
ENGINE COMPANY 20

ENGINE COMPANY 21
ENGINE COMPANY 22

ENGINE COMPANY 23
ENGINE COMPANY 24

ENGINE COMPANY 25
ENGINE COMPANY 26

ENGINE COMPANY 28
ENGINE COMPANY 28

ENGINE COMPANY 31
ENGINE COMPANY 32

ENGINE COMPANY 33

ENGINE COMPANY 35

ENGINE COMPANY 37

ENGINE COMPANY 39

ENGINE COMPANY 40
ENGINE COMPANY 41

ENGINE COMPANY 42
ENGINE COMPANY 43

ENGINE COMPANY 24

TRUCK COMPANY 1
TRUCK COMPANY 2

TRUCK COMPANY 3
TRUCK COMPANY 5

TRUCK COMPANY 6
TRUCK COMPANY 7

TRUCK COMPANY 8
TRUCK COMPANY 8

TRUCK COMPANY 10
TRUCK COMPANY 11

TRUCK COMPANY 12

TRUCK COMPANY 14

TRUCK COMPANY 16

TRUCK COMPANY 18

1900

RESCUE SQUAD 1

SERVICE SQUAD 1

AIRPORT COMPANIES

BOX. OF EQUIPMENT
JONES ST. TANK

RELIEF PERSONNEL

TOTAL

[illegible]

Administration

SAN FRANCISCO FIRE DEPARTMENT - AUTHORIZED PERSONNEL BUDGET - 1986-1987

NON-UNIFORMED PERSONNEL

SUPPRESSION: Bureau of Training	1	1426 Sr. Clerk Typist
PREVENTION:	1	1424 Clerk Typist
	2	1426 Sr. Clerk Typist
	1	1446 Secretary II
	2	5215 Fire Protection Engineer
	6	6280 Fire Safety Inspector I*
	12	6281 Fire Safety Inspector II**
INVESTIGATION:	1	1426 Sr. Clerk Typist
SUPPORT SERVICES:	1	1446 Secretary II
	1	1924 Materials & Supplies Supv.
	1	2708 Custodian
	1	5258 Sr. Mechanical Engineer
	1	5362 Civil Engineer Asst. II
	1	7205 Chief Stationary Engineer
	1	7230 Water System Supv.
	1	7323 Water System Asst. Supv.
	4	7334 Stationary Engineer
	10	7338 Utility Plumber
	1	A712 Hydrant Service Person
	2	7514 General Laborer
ADMINISTRATION:	5	0160 Member, Fire Commission
	2	1202 Personnel Clerk
	1	1204 Sr. Personnel Clerk
	2	1220 Payroll Clerk
	2	1222 Sr. Payroll & Pers. Clerk
	1	1224 Princ. Payroll & Pers. Clerk
	2	1424 Clerk-Typist
	2	1426 Sr. Clerk-Typist
	2	1446 Secretary II
	1	1450 Executive Secretary I
	1	1454 Executive Secretary III
	1	1540 Secretary, Fire Commission
	1	1650 Accountant
	1	1654 Principal Accountant
	5	1708 Sr. Telephone Operator
	1	1842 Management Assistant
	1	1873 Software Analyst
	1	2220 Physician
	1	8165 Worker's Comp. Supv. I
Total Non-Uniformed Personnel	84	
Total Uniformed Personnel	<u>1512</u>	
TOTAL Department Personnel	1596	

*One 6280 is assigned to, and funded by, Airport

**One 6281 is assigned to, and funded by, DPH

Administration

SEPARATIONS FROM SERVICE - UNIFORMED FORCE

Effective Date

0140 Chief of Department

Emmet D. Condon	Jan. 24, 1987	Ind. Dis.
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0150 Deputy Chief of Dept.

Charles D. Cresci	Mar. 21, 1987	S
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H40 Batt. Chief

Albert J. Lambrechts	Jul. 29, 1986	S
Elliott Kamler	Sep. 17, 1986	S
George J. Kniese	Jan. 05, 1987	S
Andrew T. Smail	Jan. 01, 1987	S
Jack R. Weingand	Feb. 24, 1987	S
Robert E. Donohue	Mar. 21, 1987	S

H30 Captain

Leon M. Fraysse	Jul. 07, 1986	S
John E. Putman	Jul. 19, 1986	Ind. Dis.
William J. Murray	Aug. 19, 1986	Ind. Dis.
Dale Hamilton	Oct. 08, 1986	Ind. Dis.
Francis P. Lehane	Jan. 10, 1987	S

H20 Lieutenant

William J. Tuohy	Jul. 10, 1986	S
Peter B. Henson	Jul. 26, 1986	S
John C. Ogle	Aug. 01, 1986	S
Norman P. Etzel	Aug. 08, 1986	Ind. Dis.
Haig G. Harootenian	Aug. 22, 1986	Ind. Dis.
Jack R. Chandler	Sep. 17, 1986	Dec.
Donald A. Hall	Oct. 31, 1986	S
George L. Crowder	Dec. 01, 1986	S
John F. Sullivan	Dec. 28, 1986	S
Robert M. Frazier	Feb. 03, 1987	Ind. Dis.
John Brooks	Apr. 08, 1987	Ind. Dis.
John W. Skidmore	Apr. 04, 1987	S
Paul W. Paulsen	May 05, 1987	Ind. Dis.

H22 Lieutenant, BFP

Vincent L. Sullivan	Aug. 04, 1986	S
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Administration

	<u>Effective Date</u>	
<u>H4 Inspector</u>		
Joseph F. Sebastinelli	Aug. 23, 1986	S
Curtis C. Oukrop	Nov. 20, 1986	S
<u>H10 Chief's Aide</u>		
Hector Garcia	Nov. 21, 1986	S
<u>H2 Firefighter</u>		
John W. Rubin	Jul. 04, 1986	Ord. Dis.
Joseph W. Polich	Jul. 08, 1986	S
James J. Murray	Jul. 10, 1986	S
Norman L. Somoza	Jul. 12, 1986	S
Jerome A. Pittman	Jul. 12, 1986	Ind. Dis.
Elmer Hauser	Jul. 13, 1986	S
Raymond O. Collins	Jul. 26, 1986	Ind. Dis.
Jerry Mahoney	Aug. 01, 1986	Ind. Dis.
Robert J. Tehaney	Aug. 08, 1986	Ind. Dis.
Andrew Roth	Sep. 15, 1986	Ind. Dis.
Eugene A. Allen	Oct. 18, 1986	Ind. Dis.
Emmett W. Roebeling	Nov. 03, 1986	S
Donald T. Alber	Dec. 04, 1986	S
Ronald E. Restivo	Dec. 08, 1986	Ind. Dis.
Aidan A. Shea	Feb. 19, 1987	Ord. Dis.
Ekepati Panama	Mar. 31, 1987	Res.
Jerrold C. Jacobberger	May 01, 1987	S
Michael J. Winslow	Jun. 11, 1987	Ind. Dis.
<u>H110 Marine Engineer</u>		
Blaine Hardy	Nov. 01, 1986	Ord. Dis.
<u>H120 Pilot of Fireboats</u>		
David G. McBride	Dec. 31, 1986	Res.

TOTAL UNIFORMED FORCE SEPARATIONS

Retirement (Service)	27
Retirement (Ind. Dis.)	17
Retirement (Ord. Dis.)	3
Resignation (Res.)	2
Deceased (Dec.)	<u>1</u>
Total	50

SEPARATIONS FROM SERVICE - CIVILIAN

Effective Date

7514 Laborer

Michael J. Hart (Transfer Water Dept.)	Jul. 11, 1986 (c.o.b.)	
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7388 Utility Plumber

Roger J. McMillan	Mar. 06, 1987	Res.
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7334 Stationary Engineer

Howard D. Tuscher	Sep. 01, 1986	S
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6281 Fire Safety Inspector II

Judith A. Nuno-Wallace	Jan. 09, 1987	Res.
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2708 Custodian

Howard Lee	Dec. 15, 1986	L/Off
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1924 Materials & Supplies Supervisor

Javid A. Sayed	Jul. 14, 1986	Res.
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1708 Senior Telephone Operator

Terry Merritt	Dec. 12, 1986	L/Off
Pamela Wong	Dec. 12, 1986	L/Off

1654 Principal Accountant

Robert B. Parmelee	Sep. 17, 1986	Res.
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1446 Secretary II

Salvacion R. Agrella	Sep. 01, 1986	Res.
Erlinda Blanckensee	Jan. 24, 1987	S

1426 Senior Clerk Typist

Lilibeth B. Gonzales	Jun. 12, 1987	NCS Sep.
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APPOINTMENTS

1986-1987

0140 Chief of Department

Edward J. Phipps Jan. 24, 1987

0150 Deputy Chief of Dept.

Michael T. Farrell Mar. 21, 1987

0145 Asst. Deputy Chief - Adm.

Gerald C. Cullen Jan. 24, 1987

H50 Assistant Chief

John F. Boscacci	L/T	Feb. 11, 1987
John F. Boscacci		Feb. 19, 1987
Howard L. Slater		Mar. 23, 1987

H40 Batt. Chief

John G. Mandas	Aug. 06, 1986
Louis J. Comaduran	Feb. 11, 1987
Arthur R. Citron	Feb. 11, 1987
Robert D. Bechler	Mar. 12, 1987
Gerald B. Mahoney	Mar. 12, 1987
Daniel O'Sullivan	Mar. 14, 1987
James C. Ferry	Mar. 23, 1987
Robert L. Bruno	Mar. 23, 1987
Alfred E. Smyth	Mar. 23, 1987

H30 Captain

Alberto B. Da Cunha	Aug. 06, 1986
Peter D. Roybal	Nov. 01, 1986
Douglas L. Goodin	Feb. 11, 1987
Robert J. Tully	Feb. 11, 1987
James J. Stephens	Mar. 12, 1987
Franklin H. Dunn	Mar. 12, 1987
Michael J. McKinley	Mar. 14, 1987
Kenneth J. Conroy	Mar. 23, 1987
Ronald E. Trainor	Mar. 23, 1987
Richard C. Quinn	Mar. 23, 1987
John E. Ronan	Mar. 27, 1987

H29 Special Services Officer

Gilbert A. Moreno Nov. 01, 1986

H20 Lieutenant (Lim. Ten.)

Patrick E. Grimesey	Jul. 01, 1986
Garet J. Caulfield	Aug. 09, 1986
James M. Connors	Aug. 09, 1986
Paul J. Murray	Aug. 09, 1986
Dennis J. Pardini	Aug. 25, 1986
Leo R. Martinez	Aug. 25, 1986
Eugene T. Murphy	Aug. 25, 1986
John J. Puccinelli	Nov. 01, 1986
Robert F. Lamey	Nov. 01, 1986
Michael C. Kiser	Nov. 01, 1986
Jimmie Braden	Nov. 01, 1986
Paul M. Sheehan	Nov. 01, 1986
Robert L. Vergano	Nov. 01, 1986
John M. Chapman	Feb. 11, 1987
Thomas J. Kelly	Feb. 11, 1987
Gary D. Tishma	Mar. 12, 1987
Kenneth A. Ahrens	Mar. 12, 1987
Richard P. Allen	Mar. 14, 1987
Thomas P. Callen	Mar. 23, 1987
Floyd L. Oakley	May 02, 1987
William C. Sutherland	May 02, 1987

H10 Chief's Aide

Patrick T. Gardner	Jul. 01, 1986
James A. Dunson	Jul. 26, 1986
Romero Mabutas	Nov. 01, 1986
James B. Fex	Nov. 01, 1986
H. Brendan O'Leary	Dec. 23, 1986

H18 Coordinator of Community Services

Rod Bennett (Reassigned from H4 Insp., BFP)	Feb. 02, 1987
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H24 Lieutenant, BFI

Gary D. Meltzer	Jul. 26, 1986
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H22 Lieutenant, BFP

John B. Drocco	Jul. 26, 1986
Walter R. Heath	Aug. 28, 1986

H6 Investigator

Charles R. Rapp	Sep. 18, 1986
Alfred J. Silvestri	Feb. 19, 1987

H4 Inspector (Lim Ten.)

Eugene E. Eden	Nov. 01, 1986
Craig L. Brown	Apr. 20, 1987
Alfred F. Dal Cielo	May 18, 1987

H2 Firefighter

Douglas W. Richmond (Reappointment)	Mar. 11, 1987
Emitt N. Jackson (Returned from H10 to H2)	Apr. 26, 1987

H110 Marine Engineer

Ernest L. Murdock	NCS	Oct. 23, 1986
David C. Owen	NCS	Nov. 23, 1986

H120 Pilot of Fireboats

David G. McBride		Sep. 04, 1986
Gerald R. Dow	NCS	Jul. 28, 1986
Kevin J. Devine	NCS	Dec. 04, 1986
Kevin J. Devine		May 11, 1987
Christopher M. Anderson	NCS	Jun. 16, 1987

APPOINTMENTS - MISCELLANEOUS

7514 General Laborer

Wayne R. Nowell	Mar. 09, 1987
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7388 Utility Plumber

Clyde L. Woods	Aug. 25, 1986
William J. Turner	Jun. 08, 1987

7334 Stationary Engineer

Mark Brown	NCS	Aug. 07, 1986
Herbert E. Callies	NCS	Sep. 15, 1986
Mark Brown		Apr. 22, 1987

6281 Fire Safety Inspector II

Glenn R. Alston	Sep. 22, 1986
Robert D. Gallot	Nov. 03, 1986
Barry D. Wong	Mar. 02, 1987

6280 Fire Safety Inspector I

Francis J. Sperisen, III	Jan. 06, 1987
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2708 Custodian

Howard Lee	NCS	Jul. 01, 1986
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1924 Materials & Supplies Supv.

Javid A. Sayed (Reinstatement)	Aug. 18, 1986	
Dilnawaz Hassan Syed	NCS	Jun. 29, 1987

1842 Management Assistant

Javaid A. Sayed	Oct. 24, 1986
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1654 Principal Accountant

Manuel B. Valle	Nov. 05, 1986
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1446 Secretary II

Maureen A. Hogan	Sep. 02, 1986
Fe B. Conway	Oct. 28, 1986

1426 Senior Clerk Typist

Lilibeth B. Gonzales
Loyola C. Storti

NCS
NCS

Jun. 01, 1987
Jun. 16, 1987

A712 Hydrant Service Person

Daniel H. Hubbard

L/T

Aug. 01, 1986

DISCIPLINARY ACTION

Disciplinary actions taken in the Fire Department during fiscal 1986-87 totaled 10 suspensions ranging from 2 to 30 days.

BUREAU OF COMMUNICATIONS

The Bureau of Communications serves as the dispatch and radio communications center for all emergency and non-emergency responses of firefighting units. When the San Francisco Fire Department receives an alarm of fire or other call for aid, it is the responsibility of the Communications Center to process the call, dispatch the appropriate personnel and equipment to the incident, and maintain a record of the incident. During fiscal year 1986-87, we experienced a five per cent increase in incidents as follows:

	<u>1985-1986</u>	<u>1986-1987</u>
Incidents (total)	42,839	44,945
By Telephone	34,395	36,570
Box Alarm	8,444	8,375
Greater Alarms		
Second Alarms	55	56
Third Alarms	11	9
Fourth Alarms	1	2
Fifth Alarms	2	1
Total Greater Alarms	69	68

The Communications Center also serves as the Fire Department's Information Center. During fiscal year 1986-87, the Communications Center accomplished the following in this area:

1. An on-line connection with a hazardous material spill database was established through a loan from UCSF of an IBM Personal Computer and Modem;
2. Information files of the Communications Center were totally reorganized;
3. Daily, monthly, quarterly, annual and requested computer reports were run for state and local management needs.

Other functions performed by the Communications Center during the past year are as follows:

1. Established databases for all radio, pagers, and telephone equipment of the Department;
2. Established new procedures for dealing with cliff rescue, hazardous materials, and manual-mode;

3. Served as the State O.E.S. Dispatch Center for Region 2. During this period, requests for assistance at two major fires in Monterey County were received and acted on;
4. Kept and sorted records manually for 1180 H-2 Firefighter that were hired for overtime.

Computer reliability continued to decrease at an alarming rate during the past fiscal year. There were 229 system crashes, an increase of 99 per cent over the previous year. As a result of this, the Department is attempting to procure funds to replace the aging Computer Aided Dispatch System.

PERSONNEL CENTER

The Personnel Center is responsible for maintaining personnel records, scheduling vacations, reporting and recording personnel status, and balancing daily manpower strength; including hiring overtime personnel and filling vacant classifications.

The total daily manpower strength for fiscal year 1986-1987 was 336 men per day as compared to 348 men per day for the previous year. This drop in total daily manpower strength is due to retirements with no new employments since April, 1982.

The average daily strength was reduced by 59.5 men on duty per day due to absences for vacations, military leaves, disability leaves, sickness, etc. This is a 17.7 percent average absence rate and exceeds the Fire Department's goal of no more than a 15 percent absence rate. In order to achieve this goal, the Department is following an aggressive policy to reduce absences. Deficiencies in manpower are alleviated by hiring overtime personnel.

MANAGEMENT SERVICES

The activities of the Division of Management Services include, but are not limited to, the following:

1. Developing career and educational programs for uniform personnel;
2. Developing and coordinating Human Relations programs for Department personnel;
3. Investigating discrimination and harassment complaints;
4. Participating in internal activities involving labor relations, citizen complaints, or cases that could be cause for disciplinary action by the Appointing Officer or Fire Commission;
5. Coordinating Community Service activities and false alarm abatement programs;
6. Chairing the Merit Advisory Board;
7. Chairing the Vehicle Accident Review Committee and maintaining statistical data.

Educational Programs

Members of the Department may claim Education Promotional Credit for successfully completing required courses. Additional credit may be claimed for a Fire Science degree that meets certain requirements. Courses for each rank are different and are designed to prepare the candidates to function effectively at the level to which promotion is gained.

The Educational Promotional Credit Committee is now processing requests for Educational Promotional Credits from candidates planning to take the H-40 Battalion Chief examination, which should be given during the coming fiscal year.

Human Relations

Sexual Harassment training has been initiated. Plans are being developed to provide this training to all members of the Department during the coming fiscal year.

A Human Relations Conflict Resolution training program is being developed. When finalized, the program will be presented to all members of the Department in groups of fifteen to twenty-five.

Firefighter Candidate Selection

This Division developed and implemented a process for pre-employment screening and hiring of provisional firefighters. The goal of the Division is to appoint a class of 24 candidates during August, 1987, and an additional 24 candidates in October, 1987. This group of firefighters includes the first female firefighter candidates in the history of the San Francisco Fire Department.

Vehicle Accidents

The reduction of vehicle accidents involving the Department's rolling stock is the continuing objective of the Vehicle Accident Review Board. The Board reviews all vehicle accidents and conducts hearings, when necessary, to determine the cause of each accident. The information thus gathered enables the Board to recommend changes in driving policies and driver training courses.

Vehicle accidents for fiscal year 1986-87 were the same as fiscal year 1985-86 (109). However, the number of accidents incurred by Fire Suppression decreased by two, while accidents in Support Services increased by two.

The goal of limiting vehicle accidents in the three firefighting divisions to one accident per 13,000 miles was not achieved. Units in the firefighting divisions were involved in 81 accidents, while traveling 523,199 miles. This is an accident rate of one accident per 6,459 miles traveled.

Vehicle Accidents by Unit Classification

	<u>Fiscal Years</u>				
	<u>82/83</u>	<u>83/84</u>	<u>84/85</u>	<u>85/86</u>	<u>86/87</u>
<u>FIRE SUPPRESSION</u>					
Deputy & Chief of Department	2	0	3	0	3
Assistant Chiefs	1	1	0	1	1
Battalion Chiefs	14	3	3	3	4
Engine Companies	37	45	48	52	48
Truck Companies	23	27	16	24	22
Hose Tenders	3	0	1	0	0
Salvage Companies	0	0	0	0	0
Rescue Companies	6	2	3	4	5
Service Squad	0	1	1	2	1
Foam Unit	0	0	0	0	0
Fuel Unit	0	0	0	0	0
Utility Unit	1	0	0	0	0
Airport Companies	6	11	4	3	3
	<u>93</u>	<u>90</u>	<u>79</u>	<u>89</u>	<u>87</u>
<u>SUPPORT SERVICES</u>					
Division of Fire Prevention and Investigation	7	6	7	9	10
Personnel Center	0	1	0	0	0
Bureau of Training	0	0	1	0	0
Bureau of Engineering & Water Supply	5	6	9	8	9
Special Details	0	0	0	0	0
Photo Unit	0	1	0	0	2
Bureau of Equipment	2	4	0		1
Headquarters Staff	2	1	2	2	0
Other Vehicles	0	1	1	0	0
	<u>15</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>22</u>
<u>GRAND TOTALS</u>	<u>108</u>	<u>110</u>	<u>99</u>	<u>109</u>	<u>109</u>

Vehicle Accidents by Classification

Emergency and Non-Emergency - Driving Combined

	<u>82/83</u>	<u>83/84</u>	<u>84/85</u>	<u>85/86</u>	<u>86/87</u>
Total Accidents	108	110	99	109	109
Judged Preventable	78	63	65	70	69
Total Alarms	36,071	37,107	39,189	43,050	44,498

Type of Accident

Collision with Fixed Objects--Parked Vehicles Buildings, etc.	58	45	45	52	51
Moving Vehicles	40	49	44	40	46
Another SFFD Vehicle	2	5	3	5	3
Other	8	11	7	12	9
Intersection Collision	22	21	12	9	9

Fire Department Vehicle Collided With

A Moving Vehicle	40	49	44	40	46
A Parked or Stopped Vehicle	37	32	36	33	39
Another Fire Department Vehicle	2	5	3	5	3
Fire Department Building or Object	21	13	9	19	12
Other	<u>8</u>	<u>11</u>	<u>7</u>	<u>12</u>	<u>9</u>
<u>TOTAL</u>	108	110	99	109	109

What Fire Department Vehicle Was Doing

At Time of Accident

	<u>82/83</u>	<u>83/84</u>	<u>84/85</u>	<u>85/86</u>	<u>86/87</u>
Moving Straight Ahead	55	45	46	43	34
Turning Right	7	14	13	12	14
Turning Left	14	8	2	16	10
Backing Into Quarters	11	7	8	9	12
Backing (Other)	9	15	19	12	14
Stopped	12	21	11	17	25
<u>TOTAL</u>	<u>108</u>	<u>110</u>	<u>99</u>	<u>109</u>	<u>109</u>

Damage to Fire Department Vehicle

Sideswipes	58	55	43	45	37
Right Angle	6	16	12	7	1
Rear Ends	12	17	12	8	21
Front Ends	23	11	11	20	17
Other	0	2	5	6	1
No Damage	11	9	16	23	32
<u>TOTAL</u>	<u>110</u>	<u>110</u>	<u>99</u>	<u>109</u>	<u>109</u>

Disability Injuries

There was a total of 718 injuries reported during fiscal year 1986-87. Of these, 563 caused lost work days (LWD), amounting to a total of 11,432 days lost. Compared to fiscal year 1985-1986, these figures represent a 2 per cent decrease in the total number of injuries and a 8 per cent decrease of injuries with lost work days. Lost work days increased by 3 per cent.

The most common injuries continue to be the same as in previous years, firefighters straining or spraining their backs while handling hose or other equipment.

DISABILITY INJURIES

	<u>1985-86</u>	<u>1986-87</u>	<u>Change</u>
Total Injuries	749	728	- 21
LWD Injuries	609	563	- 46
Lost Work Days	11,105	11,432	+ 330
LWD per LWD Injuries	18.23	20.31	+ 2.08

<u>Lost Work Day Injuries</u>	<u>1985-86</u>		<u>1986-87</u>	
	Injuries	LWD	Injuries	LWD
Engine Companies	325	5516	287	5182
Truck Companies	168	2933	165	3395
Rescue Companies	19	240	16	560
Airport Companies	22	439	23	741
Division 1-2-3	33	28	5	65
All Battalions	24	721	19	476
Fireboat Company	5	64	4	142
Fire Prev. & Investigation	18	270	15	464
Others	25	894	29	407
<u>TOTAL</u>	<u>609</u>	<u>11105</u>	<u>563</u>	<u>11432</u>

<u>Where Injury Occurred</u>	<u>1985-86</u>		<u>1986-87</u>	
	With LWD	Without LWD	With LWD	Without LWD
1. Fires	330	65	266	69
2. Other Emergencies	87	22	110	26
3. On Department Property	101	38	122	52
4. Drills, Off Department Property	41	3	18	5
5. Inspection Work	16	3	19	5
6. Emergency Vehicular Movement	4	0	5	3
7. Non-Emergency Vehicular Movement	2	1	4	1
8. Routine Duties (Auxiliary Ser.)	8	2	2	2
9. Not Otherwise Classified	12	6	8	2
10. Drill Tower (Training)	8	0	9	0
<u>TOTAL</u>	<u>609</u>	<u>140</u>	<u>563</u>	<u>165</u>

Administration

What Injured Was Doing	1985-86		1986-87	
	With LWDs	Without LWDs	With LWDs	Without LWDs
1. Handling hose - - - - -	157	29	119	30
2. Handling ladders- - - - -	42	2	27	0
3. Handling axes - - - - -	15	4	6	3
4. Handling ceiling hooks- - - - -	1	2	7	1
5. Handling Gleeson Valves - - - - -	9	0	7	0
6. Handling salvage covers - - - - -	2	0	2	0
7. Handling other tools and equipment- - - - -	45	7	27	8
8. Handling other objects- - - - -	56	4	50	9
9. Ventilating - - - - -	5	1	5	4
10. Overhauling - - - - -	23	9	32	16
11. Rescue Work - - - - -	35	13	45	6
12. Locating Fire - - - - -	19	6	28	5
13. Directing Operations- - - - -	12	4	13	3
14. Controlling refrigeration break - - - - -	1	1	3	0
15. Servicing or operating apparatus- - - - -	8	2	10	1
16. Inspection work - - - - -	9	3	15	3
17. Involved in vehicular collision - - - - -	4	2	9	5
18. Getting on or off apparatus - - - - -	66	3	43	8
19. Ascending or descending - - - - -	19	4	20	2
20. Sliding down pole - - - - -	4	1	3	1
21. Exercising- - - - -	11	5	17	8
22. Performing duties allied to cooking	7	7	14	13
23. Not otherwise classified- - - - -	59	32	63	37

How Injury Occurred

1. Struck against- - - - -	77	26	68	30
2. Stepped on- - - - -	10	2	6	3
3. Struck by - - - - -	32	31	50	41
4. Caught in, or, or between - - - - -	7	1	8	3
5. Tripped, slipped, or fell - - - - -	167	21	181	31
6. Lifting or moving - - - - -	216	14	141	10
7. Overexertion - - - - -	27	4	47	4
8. Wetting - - - - -	8	0	2	2
9. Exposure to temperature extremes- - - - -	1	0	2	0
10. Inhalation- - - - -	2	1	4	5
11. Irritation- - - - -	12	10	3	2
12. Absorption- - - - -	3	1	2	1
13. Contact-electrically charged objects	1	0	4	1
14. Contact-heated objects and heated water	3	2	4	1
15. Grasped - - - - -	3	0	1	0
16. Explosions- - - - -	1	0	1	0
17. Backdrafts- - - - -	1	0	2	0
18. Not Otherwise classified- - - - -	45	27	39	32

Injuries Associated with False Alarms - 0

<u>Parts or Parts of Body Injured</u>	1985-86		1986-87	
	With LWDs	Without LWDs	With LWDs	Without LWDs
1. Eye- - - - -	17	14	15	18
2. Head - - - - -	14	18	16	16
3. Neck (except respiratory system) -	29	3	33	3
4. Shoulder - - - - -	44	5	49	5
5. Arm- - - - -	21	12	17	10
6. Elbow- - - - -	33	3	16	4
7. Wrist- - - - -	12	7	9	5
8. Hand - - - - -	53	22	42	30
9. Back - - - - -	207	5	192	9
10. Leg- - - - -	31	7	37	4
11. Knee - - - - -	61	11	78	16
12. Ankle- - - - -	38	3	33	5
13. Foot - - - - -	26	10	23	12
14. Trunk- - - - -	50	7	27	5
15. Respiratory system - - - - -	9	2	7	6
16. Chest pains- - - - -	11	3	5	8
17. Not otherwise classified - - - - -	13	17	14	22

Nature of Injury

1. Burns and Chemical Burns except eyes	13	7	15	1
2. Burns, eyes- - - - -	0	1	2	2
3. Foreign body in eye or eye irritation	15	15	14	13
4. Strains-sprains- - - - -	398	29	391	44
5. Bruises and contusions - - - - -	94	26	72	27
6. Hernias- - - - -	3	2	6	2
7. Lacerations- - - - -	21	16	27	27
8. Punctures- - - - -	1	8	2	9
9. Dislocations - - - - -	3	1	4	3
10. Fractures and suspected fractures-	17	1	7	1
11. Respiratory system and smoke inhalation	8	1	5	4
12. Dermatitis (skin disorder) - - - -	13	6	2	3
13. Cardio-vascular- - - - -	12	9	6	5
14. Not otherwise classified - - - - -	25	20	21	28

MANAGEMENT INFORMATION SYSTEMS

During the fiscal year 1986-1987, the Bureau of Management Information Systems (MIS) was established. A Battalion Chief was assigned to head the newly created bureau. The Battalion Chief is responsible for all the electronic data processing (EDP) functions in the Department. These functions shall include the maintenance, repair and operations of all computers, software and hardware equipment, and related programs. The Chief, Bureau of Management Information Systems, has functional control over all EDP systems and is working with the Division and Bureau heads in the management of these systems.

The first major goal of this bureau will be to replace our archaic Computer Aided Dispatch (CAD) System and install an automatic Field Operation System (SOS). A CAD committee has been formed and an Application Transfer Study Manual has been published. The Manual assesses the current environment of our eleven year old CAD system and formulates plans for the future automation of records management.

At the present time, the committee is waiting for approval from the Electronic Information Processing Steering Committee (EIPSC) to prepare a request for proposal for a new CAD and FOS combined system.

Administration

MERITORIOUS COMMENDATIONS

In 1986-87, the Fire Commission accepted the recommendations of the Merit Advisory Board and the Chief of Department concerning acts of heroism performed by the following Department members during the period January, 1986 through January, 1987:

Class "B" Award

Batt. Chief Jack R. Weingand (Ret.)	Firefighter James M. Coyne
Lieutenant Peter J. Ackenheil	Firefighter James F. Cunnie
Lieutenant Jack F. Pacheco	Firefighter Charles N. Johnson
C/Aide Robert E. Relei	Firefighter Ronald R. Lewin
Firefighter Ernest C. Aitken	Firefighter James R. McDonagh
Firefighter Randal G. Atkins	Firefighter Daniel M. O'Donnell
Firefighter Patrick W. Buddington	Firefighter Peter D. Peterson
Firefighter Robert F. Childs	Firefighter Gary D. Tishma

Class "C" Award

Lieutenant John G. Beckerley	Firefighter Calvin L. Fong
Lieutenant Michael C. Kiser	Firefighter Mark E. Kane
Inspector Kenneth Cereghino	Firefighter Mark S. Kearney
Inspector Peter J. Schembri	Firefighter Thomas F. Kuhn
Firefighter Ronald R. Barney	Firefighter Clifton D. Merrill*
Firefighter Gordon J. Brown	Firefighter James R. McDonagh
Firefighter Paul H. Chin	Firefighter John Minnick
Firefighter Gardner E. Cole	Firefighter George E. Ohlson
Firefighter Michael J. Cunnie	Firefighter Marty A. Ross
Firefighter William D. Dickerson	Firefighter Richard E. Wagner
Firefighter Raymond E. Dito	

*Received two awards

Class "D" Award

Captain John J. Norton	Firefighter Jerry H. Heffernan
Lieutenant Peter D. Roybal	Firefighter Henry H. Jebe
C/Aide James T. Healy	Firefighter Frank G. Martin
Firefighter Edward J. Arce	Firefighter James A. Pierce
Firefighter Donald T. Gerhardt	Firefighter Michael J. Rice

There were two Unit Citations and 22 Letters of Commendation awarded to uniformed members during this period. Additionally, eight civilians received Certificates of Merit.

FIREFIGHTERS' LOCAL 798 TOY PROGRAM

Each year the San Francisco Fire Fighters' Local 798 Toy Program distributes toys at Christmas to the children of underprivileged families in San Francisco. This is accomplished without cost to the families. The Toy Program collects new and usable toys and monetary donations for the purchase of new toys each year.

Off-duty and retired firefighters and their families volunteered 4,360 hours to the Toy Program in 1986 to make our 36th Season the most successful to date in terms of children receiving toys. The Toy Program gave toys to 8,102 children in 3,254 families in the hope of providing a Merry Christmas for the children. This was an increase of 274 families from 1985.

The Seventh Annual Xmas Charity Run netted a \$20,000 donation to our Toy Program and was the most successful run to date and guarantees our existence for another year.

The members of San Francisco Fire Fighters' Local 798 and the San Francisco Fire Department thank their many friends--the citizens of San Francisco and many others--for their continued support through the years for this worthwhile San Francisco tradition.

F.L.A.M.E

The San Francisco Fire Department's Fire League of Athletic and Musical Events (FLAME) completed its seventeenth year of service to the youth of San Francisco during fiscal year 1986-1987.

The quality of FLAME's athletic activities continued to improve and the number of participants in the events increased during the past year. FLAME sponsored several baseball leagues, with over 1,000 boys taking part. FLAME, again this year, held the largest basketball tournament in California with over 1,700 boys and girls, on over 120 teams, participating. Additionally, a new High School Teen Club Basketball program involving 400 players was offered by FLAME.

FLAME continued to administer girls' basketball with approximately 800 girls in 70 teams participating in the program. And FLAME, in conjunction with several other local service agencies, assisted handicapped and under-privileged children in San Francisco.

ADVISORY BOARD

The activities of the Advisory Board during the fiscal year 1986-87 included an active participation in the Mayor's "Employee Suggestion Program." The purpose of the program is to improve the responsiveness and efficiency of San Francisco government, which includes Management by Objectives performance measurement and review process. This program contributes to greater productivity and employee satisfaction as well as improved Fire Department operations.

Since the inception of the "Employee Suggestion Program," the Advisory Board has reviewed and evaluated 21 employee suggestions. Ten of these suggestions were approved, with employees receiving cash rewards from \$75 to \$250.

PIONEER MEMORIAL MUSEUM ST. FRANCIS HOOK AND LADDER SOCIETY

The St. Francis Hook and Ladder Society sponsors the San Francisco Fire Department Pioneer Memorial Museum. The Museum is open to the public Thursday through Sunday from 1:00 to 4:00 p.m. and is located adjacent to Station 10. City Guides, furnished through the Society, welcomed 5,944 museum visitors.

The St. Francis Hook and Ladder Society is a non-profit California corporation which is empowered to accept, on behalf of the Fire Commission, gifts to the Museum. If such gifts are monetary, the Society uses the money for the preservation, restoration, and maintenance of apparatus, artifacts, and memorabilia of the collection.

During 1986, firefighters of the Department represented the San Francisco Fire Department in grand fashion at firemen's musters in Virginia City, Nevada; Santa Cruz, Sonoma, and Los Angeles.

The William F. Murray award was presented to Lieutenant Cobden Hitchon, Firefighter Robert Kim and Firefighter George Ohlson for for their heroic acts of bravery in the preceding year.

FIREFIGHTING AND RESCUE

In the city limits of San Francisco, the fire suppression forces consist of 41 Engine Companies, 18 Truck Companies, 2 Rescue Squads, a Fireboat Company, and other units which are organized for special purposes. The firefighting companies are organized into 10 Battalions which, in turn, are grouped into three Divisions. A fourth suppression division is located at the San Francisco International Airport and is made up of three firefighting companies.

Firefighting and rescue services, fire prevention, and training are the main concerns of the suppression forces. During fiscal 1986-87, suppression units responded to 44,498 incidents, 6,267 of which were fires. In addition, suppression units responded to 15,588 calls for first-aid or resuscitation and 13,174 other alarms, not including 9,469 false alarms.

Fire prevention activities of the suppression forces center around the Commercial Residential Inspection Safety Program (CRISP) and the Home Safety Survey. Last fiscal year, the suppression forces inspected nearly 14,000 occupancies under these two programs. Besides identifying and abating hazards found during inspections, fire suppression companies are able to formulate plans for firefighting in the inspected occupancies should they be required to respond to fire alarms in the properties.

The primary responsibility for in-service training of suppression firefighters is given to the company officers. Under the supervision of Battalion Chiefs and the Bureau of Training, the company officers drill the members of their companies in firefighting and rescue techniques, equipment operation and maintenance, and salvage operations among other fire service related topics.

The Bureau of Training supplements this training and also evaluates the performance of individual fire companies and firefighters. In addition, designated chief officers, in cooperation with the Bureau of Training, provide training in specialized areas, such as Hazardous Material incident response, BART and MUNI Metro underground firefighting and rescue, and high-rise building firefighting.

The following section contains a recapitulation of Fire Department response from 1981-82 to 1986-87 and a comparison of the number of incidents by type for 1985-86 and 1986-87. Fires are further classified by source of ignition, material first ignited, and property class.

FIREFIGHTING AND RESCUE SERVICES

Recapitulation of Fire Department Response:

	<u>81-82</u>	<u>82-83</u>	<u>83-84</u>	<u>84-85</u>	<u>85-86</u>	<u>86-87</u>
Total Fire	6,584	6,116	6,356	7,132	6,709	6,267
False Alarms	11,468	11,271	11,187	10,541	10,266	9,469
Emergency Other than Fire	18,483	18,684	19,564	21,516	26,075	28,762
(Resuscitations)	(2,264)	(1,917)	(1,283)	(1,776)	(1,724)	(1,525)
Total Alarms	36,535	36,071	37,107	39,189	43,050	44,498
Major Alarms	71	70	72	59	69	56

Summary of Incidents by Type

	<u>85-86</u>	<u>86-87</u>
<u>Fires</u>		
Unknown Type Fire- - - - -	2	0
Building Fire- - - - -	2,484	2,550
Trees, Brush, Grass- - - - -	778	499
Vehicle Fire - - - - -	1,194	1,128
Refuse Fire- - - - -	2,077	1,958
Outside Structure- - - - -	90	73
Explosion- - - - -	2	5
Outside Spill/Leak - - - - -	-	-
Mobile Home- - - - -	-	2
Other Fire - - - - -	82	52
<u>TOTAL</u>	<u>6,709</u>	<u>6,267</u>

False Alarms

Malicious/Mischief - - - - -	7,933	7,435
Bomb Scare, No. Bomb - - - - -	39	21
System Malfunction - - - - -	1,932	1,608
Unintentional- - - - -	362	405
<u>TOTAL</u>	<u>10,266</u>	<u>9,469</u>

Emergency Other Than Fire

Rescue Calls

Resuscitation-Positive - - - - -	1,088	836
Resuscitation-Negative - - - - -	636	689
First Aid- - - - -	11,677	14,063
Rescue/Extrication - - - - -	85	103
Potential Jumper - - - - -	19	22
Elevator/Escalator - - - - -	360	481

Suppression

Rescue Calls (Cont)

	<u>85-86</u>	<u>86-87</u>
Trapped in Auto- - - - -	114	136
Cliff/Landslide- - - - -	13	13
Aircraft Incident- - - - -	-	1
Drowning - - - - -	11	11
<u>TOTAL</u>	<u>14,023</u>	<u>16,355</u>

Overpressure

Steam Rupture- - - - -	31	47
Air/Gas Rupture- - - - -	101	117
Water Heater/Boiler- - - - -	69	70
<u>TOTAL</u>	<u>201</u>	<u>234</u>

Hazard Conditions

Washdown Blood - - - - -	44	19
Washdown Gas/Oil, etc. - - - - -	1,544	1,377
Explosive Removed- - - - -	6	4
Excessive Heat - - - - -	188	229
Power Lines Down - - - - -	121	88
Arc/Short Electric - - - - -	451	428
Refrigeration Leak - - - - -	3	1
Smell of Natural Gas - - - - -	16	12
Building Collapse- - - - -	8	2
Aircraft Alert - - - - -	95	124
<u>TOTAL</u>	<u>2,476</u>	<u>2,284</u>

Good Intent Calls

Smoke Scare/Smell- - - - -	1,290	749
Wrong Location - - - - -	8	9
Control Burn - - - - -	33	33
Alarm Bell Ringing - - - - -	1,557	2,223
Recall/No Service- - - - -	1,522	1,771
<u>TOTAL</u>	<u>4,410</u>	<u>4,785</u>

Service Calls

Cover a Window - - - - -	248	249
Lock-Out/Lock-In - - - - -	615	700
Water Removal- - - - -	816	785
Smoke/Odor Removal - - - - -	225	288
Animal Rescue- - - - -	21	21
Assist Police- - - - -	239	246
Broken Hydrant - - - - -	181	217
Boat Sinking - - - - -	14	11
Loose Structure- - - - -	89	47
Broken Sprinkler - - - - -	76	84
<u>TOTAL</u>	<u>2,524</u>	<u>2,648</u>

Suppression

Hazardous Material Spill

	85-86	86-87
Unknown- - - - -	25	36
Explosives - - - - -	12	
Compressed Gas Leak- - - - -	128	123
Flammable Liquid Spill/Leak- - - - -	75	154
Flammable Solids - - - - -	2	1
Oxidizing/Organic Peroxides- - - - -	2	3
Poisons- - - - -	5	6
Radioactive Material - - - - -	-	2
Corrosions - - - - -	9	9
Other Regulated Material - - - - -	47	44
<u>TOTAL</u>	<u>305</u>	<u>378</u>

Miscellaneous Calls

2,136 2,086

Fires - Source of Heat of Ignition

Heating Systems- - - - -	145	140
Cooking Equipment- - - - -	862	914
Air Conditioning Equipment - - - - -	25	16
Electrical Distribution Equipment- - - - -	397	416
Electrical Appliances- - - - -	138	125
Special Equipment- - - - -	308	327
Processing Equipment - - - - -	19	19
Service Equipment- - - - -	36	35
Other Objects- - - - -	1,096	4,084
Undertermined- - - - -	230	197

Fires - Type of Material Ignited

Gas- - - - -	56	53
Flammable Liquid - - - - -	721	639
Volatile Solid - - - - -	291	319
Chemical-Metal-Plastic-Paint - - - - -	191	184
Natural Product- - - - -	1,547	1,314
Fabric-Textile Fur - - - - -	676	644
Material with Oil- - - - -	86	46
Other- - - - -	89	117
Undetermined - - - - -	235	203
Wood-Paper - - - - -	2,870	2,754

Fires - Number and by Property Class

Public Assembly		
Amusement-Fixed - - - - -	3	12
Amusement-Variable- - - - -	2	3
Churches- - - - -	8	12
Libraries, Courts - - - - -	7	6

Suppression

<u>Fires - Number and by Property Class</u>	<u>85-86</u>	<u>86-87</u>
Public Assembly (Cont)		
Eating, Drinking- - - - -	72	90
Terminals, Station- - - - -	10	9
Theaters- - - - -	9	6
Clubs - - - - -	2	5
Educational		
School, Non-Resident- - - - -	13	25
Business Schools- - - - -	9	10
Universities- - - - -	5	9
School, Residential - - - - -	-	4
Unclassified- - - - -	1	-
Institutional		
Care of the Aged- - - - -	9	11
Care of the Young - - - - -	5	4
Sick or Injured - - - - -	48	61
Physical Restraint- - - - -	4	3
Residential		
One & Two Family- - - - -	481	468
Apartments- - - - -	1,366	1,353
Rooming House - - - - -	1	2
Hotel - - - - -	178	154
Motel - - - - -	3	5
Dormitory - - - - -	7	5
Mobile Home - - - - -	2	1
Other - - - - -	1	1
Store & Office		
Food, Beverage- - - - -	38	32
Textile, Clothing - - - - -	4	7
Household, Repair - - - - -	14	10
Specialty - - - - -	15	9
Recreation- - - - -	8	9
Professional- - - - -	17	23
Motor Vehicle - - - - -	12	8
General Item- - - - -	4	9
Offices - - - - -	105	107
Basic Industry		
Communications- - - - -	4	4
Utilities - - - - -	34	35
Agriculture - - - - -	-	2
Forestry- - - - -	2	4
Mineral Products- - - - -	-	1
Laboratories- - - - -	2	5

Suppression

	85-86	86-87
Manufacturing		
Food- - - - -	10	7
Beverage, Tobacco - - - - -	2	1
Textiles- - - - -	0	0
Wearing Apparel - - - - -	3	4
Wood, Paper - - - - -	15	16
Chemical- - - - -	2	2
Metal - - - - -	8	9
Vehicle - - - - -	3	2
Other - - - - -	3	8
Unclassified- - - - -	5	3
Storage		
Textile - - - - -	-	1
Food, Tobacco - - - - -	-	4
Petroleum, Alcohol- - - - -	-	1
Wood, Paper - - - - -	4	1
Chemical, Plastic - - - - -	-	2
Metal - - - - -	-	6
Vehicle - - - - -	14	19
General - - - - -	48	49
Agricultur- - - - -	1	0
Unclassified- - - - -	-	-
Special Properties		
Construction- - - - -	34	19
Special Structures- - - - -	3	7
Outdoor - - - - -	799	510
Road- - - - -	2,036	1,933
Equipment Areas - - - - -	-	1
Railroad- - - - -	-	-
Aircraft Areas- - - - -	1	1
Water Areas - - - - -	1	2
Unclassified- - - - -	1	0
Mobile Property		
Road-Passenger- - - - -	1,070	1,023
Road-Freight- - - - -	124	97
Rail Transport- - - - -	4	1
Water Transport - - - - -	6	4
Air Transport - - - - -	3	2
Heavy Equipment - - - - -	9	8
Special Vehicles- - - - -	-	2
Unclassified- - - - -	1	1

DIVISION OF AIRPORTS

Organization

The Airport Fire Department is Division Four of the San Francisco Fire Department assigned to the 5,200 acre San Francisco International Airport.

Sixty-eight employees are assigned to the Division of Airports. Sixty-two of these are assigned to suppression duties to establish staffing of 17 on-duty personnel around the clock. Additionally, a Division Chief, an Operations/Training Supervisor, a Deputy Fire Marshal, a Fire Safety Inspector, Staff Assistant, and a Stenographic Secretary handle the administrative and support functions of the Division.

Responsibilities

Division Four is prepared to deliver Emergency Medical Services for the more than 30,000 employees and 70,000 daily passengers as well as Crash/Fire/Rescue protection for the 1,300 flights daily in and out of the airport. The Division is also prepared for structural fires as well as Petro-Chemical tank-farm protection. Administration management includes budget preparation, development of equipment specifications, contracts, permits, planning, maintenance of equipment, scheduling and control, and personnel management.

Division Four also provides training in first aid, C.P.R., and fire extinguisher use for airport employees and tenants.

It should be noted, that for the ninth consecutive year, S.F.I.A. has received the Aviation Safety Institute Award for Crash/Fire/Rescue Preparedness.

Training

Division Four training is conducted daily. Supervision is under the Division Chief and is conducted by the Training Supervisor and Company Officers. Training activities include "Hot Drills," Hazardous Materials, drills and unannounced Emergency Response Drills (Red Caps) as well as applicable San Francisco Fire Department drills and procedures. Evaluation and inspection of training is conducted by the F.A.A. during the Annual Airport Certification Inspection.

New Equipment

A light Rescue/First-Aid vehicle is due on line in the Fall, 1987

A 34-foot Rescue Boat with Search and Rescue rafts and foam making ability is due in the Fall

An Oshkosh 3,000 gallon Crash Fire Rescue vehicle will be delivered in the Spring of 1988

A 75-foot Aerial Ladder Quint with 1,000 g.p.m. AFFF capability is due on line in the Spring of 1988

AIRPORT STATISTICS

	<u>1985-86</u>	<u>1986-87</u>
Fires	14	57
False Alarms	91	59
Rescue Calls	1,021	1,096
Overpressure	3	1
Hazardous Condition	265	109
Aircraft Alert	94	120
Good Intent Calls	245	266
Service Calls	37	50
Hazardous Material Spill	16	109
Other	<u>135</u>	<u>96</u>
TOTAL	1,827	1,963

These statistics represent an overall rise of 6 per cent in occurrences from last year.

FIRE SUPPRESSION INSPECTION PROGRAMS

The Commercial Residential Inspection Safety Program (CRISP) is an inspection program performed by the local fire suppression personnel and is targeted primarily at businesses and large residential buildings. Large industrial buildings exceeding 100,000 square feet and properties classified as high-rise buildings are excluded from this program. One and two-family dwellings are also excluded.

CRISP is designed not only to identify and classify buildings for computer data storage and retrieval but also to enable first-due companies to identify hazards and prepare pre-fire plans. When fire suppression companies identify hazardous conditions, they issue a "Notice of Violation" and set a time limit to abate the hazard.

The Bureau Inspector who is assigned to CRISP is responsible for record keeping and for screening all forms for compliance with all applicable codes, ordinances, and regulations. Also, this Inspector serves as the liaison between the fire suppression and fire prevention personnel.

In fiscal year 1986-87, fire suppression companies' personnel inspected 14,804 buildings under the program, found 507 violations, and issued "Notices of Violation" to the responsible parties. Suppression personnel obtained 318 corrections which reflect an abatement rate of 63 per cent which is slightly lower than the program's goal of 75 per cent.

A recapitulation of CRISP is as follows:

<u>Year</u>	<u>Inspections</u>	<u>Violations</u>	<u>Corrections</u>	<u>Percent</u>
1980-81	10,408	827	570	68.9%
1981-82	5,937	880	561	63.8%
1982-83	7,702	874	809	83.1%
1983-84	11,247	641	450	70.2%
1984-85	11,040	841	637	75.7%
1985-86	10,659	470	349	74.3%
1986-87	14,804	507	318	63.0%

The Home Safety Survey Program is carried out by the fire suppression companies' personnel to identify hazards in one and two-family dwellings. The effectiveness of the program relies upon the cooperation of the home dwellers, for it is with their consent and participation that inspections are made. When their consent is obtained, fire suppression personnel inspect the home for hazards; i.e., stored rubbish, flammable liquids, electrical wiring, and heating hazards. Any hazards identified are abated as a result of the home dweller's cooperation.

During the past fiscal year, fire suppression personnel approached 9,625 homes and were granted permission to inspect 3,001 (31%) of these homes.

BUREAU OF TRAINING

During fiscal year 1986-87, the Bureau of Training met or exceeded all of the objective performance levels of the M. B. O. program.

In conducting battalion and company drills, the Bureau of Training has initiated a pilot program which places greater emphasis on evaluation of individual and company performance by chief officers rather than by Bureau of Training personnel. It is expected that this change in emphasis will result in improved levels of performance by field personnel and will also allow Bureau of Training personnel to focus greater attention on development and implementation of new and innovative training programs. All engine and truck company personnel achieved acceptable performance ratings.

A computer work station has recently been acquired by the Bureau of Training which has provided an invaluable asset for keeping training and personnel records and for revising training forms and manuals. The computer will also be incorporated in a revised fire simulator course. Bureau personnel are receiving computer training and new computer programs are currently being developed.

The Video Communications Unit (S.F.F.D. VidCom) has proven to be an invaluable addition to the Fire Department. In addition to documenting emergencies, assisting the Arson Squad and acting as an effective medium for intra-departmental communication, the VidCom Unit is increasing and revising a library of visual training material which will

better enable the Bureau of Training to meet its responsibility for in-service and recruit training. In addition to its other duties, the VidCom Unit has recently assumed responsibilities as Department Photographer. It is now able to respond immediately to emergency and other incidents with video, photo and motion picture capability.

The Bureau conducted a company officer training program for all new lieutenants and captains. Company officers were also given training in instructors courses 1B under the auspices of the Community College of San Francisco. This training will allow State certification of these officers as instructors.

The Federal Court authorized provisional hiring of new firefighters and a recruit training class is scheduled to begin on August 17, 1987. Much time and effort was committed by the staff of the Bureau of Training in updating the recruit training program in preparation for this class. A pre-hiring training program was also developed and implemented by the staff. This program was conducted over a period of eight weeks and 44 of the new firefighter candidates participated.

FIRE AUXILIARY RESERVE

The Fire Auxiliary Reserve, under the supervision of the Chief of the Bureau of Training, is organized to augment the San Francisco Fire Department in times of disaster. The members of the Fire Reserve are a group of dedicated citizens whose services are volunteered to the City and County of San Francisco without remuneration. Throughout the year, they are specially trained in cooperation with the Bureau of Training personnel in weekly training exercises and special drills held either at the Bureau of Training or elsewhere. The Fire Reserve members also receive on-the-job training by observing and assisting at greater alarm fires, and by participating in the ride-along program held at several firehouses throughout the City.

During the past year, the Fire Reserve has continued to receive extensive training both in the deployment of the portable 5-inch water main system and earthquake preparedness. They have also continued to assist other City agencies, such as the Department of Public Health's Paramedic Division, Office of Emergency Services, and BART and Muni with disaster and communication drills.

During this fiscal year, the Fire Reserve acquired a permanent station of its own at 11 52 Oak Street (old Engine 21).

As of June 30, 1987, the membership of the San Francisco Fire Auxiliary Reserve stood at 35 members. Under the direction of Commander William Keene, the Fire Auxiliary Reserve participated in 52 training exercises--for a total of 1,778 man hours. In January of 1987, the Fire Auxiliary Reserve also began to record their attendance at work details. Since that time, they have recorded participation in 23 work details for a total of 836 man hours. The Fire Auxiliary Reserve responded to 16 greater alarms and assisted at these alarms for a total of 111 man hours.

HAZARDOUS MATERIALS PROGRAM

With the increased usage of toxic and otherwise hazardous materials in the environment, an increased risk of a potentially serious exposure to the citizens of San Francisco has developed. To meet this potential hazard, the San Francisco Fire Department placed into service a Hazardous Materials Unit on October 1, 1982.

The Hazardous Material Response Unit (Haz Mat 1) is quartered at Fire Station 36. The Hazardous Materials Response Team is made up of the members of Engine Company 36 and is backed up by the members of Rescue Squad 1 and Rescue Squad 2. Further support is given to the unit by inspectors from the hazardous materials permit section of the Fire Prevention Bureau, industrial hygienists and environmental health inspectors from the Department of Public Health, and the Coast Guard.

Training for personnel the past year has been mostly in-house. However, scheduling for intensive state certification hazardous materials classes for all members of Engine 36, Rescue Squad One and Rescue Squad Two is in progress. Two members of the Department, Firefighter Corporandy and Lieutenant Davis of Rescue 1, attended the Hazardous Materials Tactical Consideration Course at the National Emergency Training Center this past year.

A disbursement of \$80,000 from the state of California has been allocated to the City and County of San Francisco for a vehicle and equipment for hazardous materials emergency response. Specifications for a larger hazardous materials response vehicle are currently under development.

HIGH-RISE TRAINING PROGRAM

The High Rise Training Program of the San Francisco Fire Department consists of two parts. The first part is a continuous on-site training in strategy and tactics at various high rise buildings in the downtown area of San Francisco. The second part is an ongoing inspection/familiarization program conducted by the first due firefighting units located in the downtown area.

A full-scale drill involving the units of a first alarm response to a simulated fire in a high rise building is conducted at least once a month. The fire suppression units taking part in these drills are primarily from the downtown battalion districts; however, units from other battalion districts take part in these drills on a regular basis. Every Saturday an elevator operation/building orientation drill is conducted by one of the battalion chiefs in Division One. This drill/orientation affords the officers and firefighters of the participating units the opportunity to gain experience with the firefighting systems of the buildings, and to learn of some of the problems they may encounter in fighting a fire in a high rise building.

The overall goal of the High-Rise Committee is to increase the proficiency of the San Francisco Fire Department pertaining to firefighting operations in high-rise buildings.

BAY AREA RAPID TRANSIT AND MUNI METRO TRAINING

The Rapid Transit Training Committee has maintained its program of conducting full-scale drills in both the Muni System and the BART System. An attempt is being made to vary the location and type of drills.

During the fiscal year, four drills were conducted on Muni facilities. One in the Sunset Tunnel and three in the Underground near the Duboce Portal. Six drills were conducted on BART facilities. One between the 24th Street Station and Glen Park, three in the Trans-Bay Tube in conjunction with the Oakland Fire Department, and two on the Overhead Track in the area of Farragut and Alemany.

The Bureau of Training has taken the responsibility for conducting the "hands-on" jacking drills for MUNI light rail vehicles performed by the Rescue Squads, Truck Companies, and the Engine Companies stationed with those two units.

HEALTH AND PHYSICAL FITNESS PROGRAM

The San Francisco Fire Department's Health and Physical Fitness Program was devised to foster a healthier, more active life style for firefighters. In order to accomplish this objective, each participant received an individualized exercise program, a coronary risk profile, a pulmonary functions report, an exercise electrocardiogram, a job related task report, and a percent of body fat measurement. The individualized exercise program consists of flexibility exercises (stretching), weight training (strength), and cardiorespiratory exercises (walking, jogging, and stationary bicycling).

As of September 29, 1987, approximately two-thirds of the firefighters have been retested. The members who have not participated in the program are those on light duty or those having a medical excuse.

The Health and Physical Fitness Program for the San Francisco Fire Department started in 1980. The following information relates to the outcome of the program in terms of the number of lost-work-day injuries, lost-work days due to injuries, disability retirements, estimated cost effectiveness of the program, results of abnormal exercise electrocardiograms, and changes in the job tasks over an eight-month period.

Using 1980-81 as the base year, the information for engine, truck, and rescue companies indicated that the number of injuries involving lost-work days was less for each of the following six years. The number of work days lost due to job related injuries was less during four of the six years. Disability retirements were less than the base year for five of the six years and equal to it the other year. The following table indicates the specific data for the past seven years.

Yearly Comparisons

Cost Effectiveness

	<u>1980-81</u>	<u>1981-82</u>	<u>1982-83</u>	<u>1983-84</u>	<u>1984-85</u>	<u>1985-86</u>
Number of injuries (% change*)	564	561	492	542	431	512
Lost work days (% change*)	8,925	7,848 (-13%)	7,932 (-12%)	9,199 (+3%)	6,822 (-24%)	8,689 (-3%)
Disability (% change*)	14	11	11**	11**	14***	8**

- * Percent change from 1980-81
- ** One was not service connected, but is included in the cost effectiveness calculations.
- *** Two were not service connected, but are included in the cost effectiveness calculations.

Based on 1986-87 information, the approximate cost to the City and County of San Francisco is \$255.57 for a lost work shift of 12 hours and \$511.13 for a 24-hour tour, which San Francisco firefighting personnel presently work. The approximate cost of an average disability retirement based on 1984-85 information is \$375,750. Using the preceding information, the average savings to the San Francisco Fire Department during the past six years was \$1,174,613 per year (lost work days, \$171,360; disability retirements, \$1,003,253). The total amount for the past six years is \$7,047,678. (If the past six years, 1981-1987 are compared to the preceding four years, 1976-1980, before the initiation of the Health and Fitness Program, the savings would have been over \$5 million per year).

A direct relationship between the Health and Physical Fitness Program and cost effectiveness is extremely difficult to determine. If it is assumed that the program results in a 50 to 75 percent reduction in the days lost and disability retirements granted, the savings to the San Francisco Fire Department would be between \$3.5 and \$5.2 million for six years.

During the program's coronary testing stage, 13 firefighters were identified as having abnormal exercising electrocardiograms. Ten of these firefighters received medical treatment and are still working as active firefighters. Three others received disability retirements.

A group of approximately 100 firefighters participated in a physical fitness program for eight months. Improvement on the six job-related tasks amounted to over a 33 percent average increase in the relative position of the firefighters in the group when the post-test scores were compared to the pre-test scores.

BUREAU OF FIRE PREVENTION

The Bureau of Fire Prevention, during the fiscal year 1986-1987, completed its program of decentralization of field fire inspectors. Utilizing space within fire stations and other department property, inspectors are placed within their assigned districts and have developed liaison with their respective battalion and division chiefs as well as their various communities.

The FITS computer has proven to be a useful tool in scheduling of inspections. The computer has shown to be of great significance in the management of the inspection staff, as well as by bureau supervisors.

Training of the inspectors through weekly inhouse programs and travel to local, state and national educational programs has led to greater competence and professionalism on the part of the staff.

Annual inspection programs such as the high-rise inspection unit, the preschool inspections, the institutions, and the school inspections continue to meet all the objectives of the Bureau's Management by Objectives Program.

The Department's participation in National Fire Prevention Week included its Annual Fire Prevention Day at the Zoo, but also for the first time, an additional Fire Prevention Day was held in the downtown office building area. Both events proved to be a great success.

Inspections - District Inspections

Fire Department Permits.	575
New Construction	191
Alterations.	3,869
State Fire Marshal Referrals	576
Other Referrals.	650
Complaint Inspections.	2,743
 Total Re-Inspections	 55,929
Total Inspections.	64,533

CODE ENFORCEMENT

Fee Schedule Implemented for High Rise Inspection Program

The Board of Supervisors established an inspection fee of \$3.40 per 1,000 square feet of area for all high rise buildings during fiscal year 1985-1986. The Bureau of Fire Prevention conducted inspections and billed the owners of 421 high rise buildings for the required inspection service during 1986-1987. The established fee schedule allows the Bureau of Fire Prevention to collect the entire cost of a state-mandated inspection program.

New Fire Code Adopted

The San Francisco Fire Department adopted a new Fire Code during the fiscal year 1986-1987. The City adopted the Uniform Fire Code, 1985 Edition, with amendments specific for San Francisco.

Plan Checking

The San Francisco Fire Department Plan Checkers have been consolidated into Room 301 at the Bureau of Building Inspection. Presently, the Department staff of two (2) Fire Protection Engineers, one (1) H-4, and three (3) Fire Safety Inspector II's are under the supervision of a lieutenant assigned to this location.

These specialized inspectors and Bureau personnel maintain contact with design professionals, check plans for compliance with all regulations enforced by the Fire Marshal and approve plans for new construction projects and ordinances.

The Bureau of Fire Prevention developed legislation which authorized the Department to collect a fee for these plan checking activities. The Department will recover the entire cost of its plan checking activities beginning with the new fiscal year.

Miscellaneous Reports and Communications

Review of C.R.I.S.P. Reports--The Bureau of Fire Prevention has initiated a program by which all field reports are reviewed and determinations made as to further investigation of conditions shown on the report. The Bureau of Fire Prevention has established a procedure with the guidance of the City Attorney's Office to obtain Code compliance with state and local safety codes.

PUBLIC EDUCATION

The Public Education segment of the Bureau of Fire Prevention and Public Safety presented Fire and Earthquake Safety lectures before 34,572 persons during the reporting year. Public service announcements regarding fire safety were sent to all radio stations within the San Francisco Bay Area on a bi-monthly basis. An ethnic language (Chinese/Cantonese) was produced for the Department through funding by the Tobacco Institute which detailed the installation of smoke detectors. The Department's Annual Fire Prevention Day at the Zoo was again a great success. Other activities during National Fire Prevention Week included a large display of fire equipment and fire safety literature in the financial district, numerous special lectures at corporations and displays within many community areas. The "Learn-Not-To-Burn curriculum continues to be used in the City's Unified Public Schools. As the present Child Fire Setter Program is no longer functioning as originally devised, a new program of intervention and education is being developed.

FIRE MARSHAL--SAN FRANCISCO INTERNATIONAL AIRPORT

The 102 million dollar renovation project of the South Terminal Complex is nearing completion. June, 1988, is the date scheduled for public usage of the last boarding area "C." Boarding areas "A" and "B" are now in full operation.

One of the primary responsibilities of the Airport Fire Marshal is to review all plans for new construction or alterations to existing structures and to insure that all federal and municipal codes relating to fire protection are adhered to.

Some of these responsibilities include such activities as the following along with their respective number of times:

Plan checking	117
Welding and Burning Permits	23
Fire protection classes instructed	18
Major fuel spills investigated	39
Fuel tank truck inspections	406
Building inspections	949
Sprinkler system inspections	79
Wet standpipe hose cabinet inspections	4,786
Fire extinguishers issued, inspected, exchanged, or inspected	7,546
Baggage belt inspections	1,482
Ramp inspections	218

The Airport Fire Marshal annually inspects all buildings at the Airport and enforces all codes and regulations as adopted by the Airport regarding life safety, fire suppression, and fire prevention. He and his staff conduct regularly scheduled classes in the use of fire extinguishers for home and work site.

FIRE MARSHAL--SAN FRANCISCO PORT COMMISSION

Once again, it is a tribute to the tenants, the shipping companies, E-35/Fireboat One, the Coast Guard, the Navy and the Port staff for their dedicated interest in maintaining a near zero capital fire loss in occupied waterfront structures for the fiscal year. The vast majority of our fires were small ones, i.e., No Loss Trash (NLT) and No Loss Deteriorated Pilings (NLDP) resulting from improper discarding of smoking materials. Our second most demanding area in terms of fire department response was medical primarily at the northern waterfront and the high level of tourist activity at and near Fisherman's Wharf.

Although hundreds of thousands of gallons of fuel are bulk transferred on the waterfront each day, the Port enjoyed a zero fire loss/fuel spill statistic for the fiscal year. This effort is shared with the Coast Guard under the Code of Federal regulations as well as our own enforcement through the San Francisco Fire Code. This excellent record is attained through heavy cooperation and training with the oil companies, tug boat companies and the vessel operator's themselves who respond to the area for rescues, medical calls, and other emergencies.

Current major Port projects include the following:

Bridge Anniversaries--A major amount of time was consumed in the coordination, transportation, security, set-up and execution of these two major fireworks and crowd control events.

The newly completed South Beach Small Boat Harbor highlights the very up-beat assessment of the Port today. New fire protection systems, fire safe design and new sea walls to protect the boats from impact and mechanical damage from storms will ultimately reduce fire department responses for rescues and sinking boats.

Pier 35 Cruise Ship Terminal--Fire safety modernization found all exposed standpipe hoses replaced and housed in new hose cabinets along with frequently stolen fire extinguishers.

Other fire safety achievements during the fiscal year included new fuel storage dikes and enclosures, added sprinkler systems, Title 19 - 5 year Systems Maintenance Inspections on existing systems, improved security, new or modernized first aid firefighting appliances, more emergency

Prevention

lighting, Bilco Automatic Fire/smoke doors on roofs, continued demolition of unsafe structures and addition of daily and weekly in-house fire prevention inspections by staffs of large port tenants.

A statistical breakdown of the activities of the Port Fire Marshal are as follows:

	1985-86	1986-87
Pier survey and inspections, sea wall lots and buildings	597	627
Reinspections and resurveys	87	97
Total number of inspections and surveys	684	724
Plan Checking - new construction	39	41
Plan Checking - alterations	311	279
Total number of plans checked	350	320
Lectures and first aid classes	23	39
Welding and burning permits	252	218
Welding and burning inspections	419	238
Other permits issued	301	432
Emergency night and weekend calls	14	19
Port administration meetings attended	49	104
Fire Marshal staff and training meetings attended	134	47
Fire extinguishers issued, exchanged and/or inspected	2,769	5,296

Investigation

BUREAU OF FIRE INVESTIGATION/ARSON TASK FORCE

The goal of the Bureau of Fire Investigation is to conduct comprehensive investigations of fires, including all of the factors influencing or contributing to the fire ignition sequence and the communication of fire. Activities include accidental fire investigation to determine the origin and cause, criminal investigation when arson is determined, and the reduction of arson incidents.

The determination of origin and cause provides the foundation for the development of the factual and legal theory underlying the incident. Effective analysis of legal rights and duties depends upon this determination. An analysis of the origin, cause, and fire spread often leads to a complete formulation of liability and causation which will ultimately be presented at trial.

Numerous depositions, evidence review conferences and other meetings were attended by Bureau of Fire Investigation personnel during the fiscal year. The Cathedral Hill Hotel, Pier 30-32, 85 Ora Way, and One Market Plaza fires continue to be involved in civil litigation with millions of dollars at stake.

During December, 1986, the operating procedures of the Arson Task Force were severely tested during a murder/arson trial. The previous prosecutor for the Arson Task Force appeared as joint counsel for the defendant. A private investigator, friendly with fire department investigators, also appeared as an expert witness for the defense. In spite of the familiarity of both of these participants with report routing and other internal fire department procedures, the Arson Task Force was able to obtain a murder conviction.

There is every indication that the combined efforts of the Fire Department, Police Department and District Attorney's Office are prepared to respond to any challenge.

Listed below is a comparison of the relevant Bureau of Fire Investigation/Arson Task Force statistics for fiscal years 1985-86 and 1986-87:

	<u>1985-86</u>	<u>1986-87</u>	<u>Change</u>
Incidents Investigated	562	599	+01%
Accidental Fires	84	149	+44%
Incendiary Fires	414	409	-01%
Felony Convictions	21	14	-33%
Misdemeanor Convictions	24	18	-25%

ARSON EARLY WARNING SYSTEM

The goal of the Arson Early Warning System (AEWS) is to reduce arson-for-profit fires and negligent fires by identifying potential high-risk buildings through the examination of public records in conjunction with on-site inspections. Relevant information is provided to insurers so that steps may be taken to minimize risk by cancelling the policy, increasing restrictions, or not insuring at all. Intervention is also accomplished by direct contact with the owner.

The Arson Early Warning System obtains referrals from Chief Officers, field units, concerned citizens, insurance representatives, and the Bureau of Fire Prevention.

The investigator assigned to the Arson Early Warning System is also responsible for obtaining, evaluating and maintaining records of insured fire losses. An automated program for data entry and sorting has been developed on a micro-computer for this purpose. Several insurance companies are voluntarily participating in a pilot program by providing information for data entry. The ultimate goal is to include data on all insured fire losses so that more accurate records may be maintained pertaining to insured fire losses occurring within the City and County of San Francisco.

FIRE FATALITY SUMMARY

Fourteen (14) people perished in fires during the 1986-87 fiscal year.

The leading cause of fire fatalities was smoking material igniting combustibles, which accounts for six of the fire deaths during the fiscal year. Three people were killed in incidents in which flammable vapors were ignited.

One fire, caused by an electrical appliance, resulted in three fatalities when the occupants attempted to extinguish a small fire and did not summon the fire department. The material first ignited smouldered and reignited during the night causing the loss of three individuals.

Fire fatalities are compared for the past five years in the following chart:

	<u>1982-83</u>	<u>1983-84</u>	<u>1984-85</u>	<u>1985-86</u>	<u>1986-1987</u>
Fatalities	22	23	10	22	14
<u>Occupancy</u>					
Apartments	3	9	6	6	1
Dwellings	7	8	4	7	11
Hotels	1	5	0	0	1
Other	6	1	0	9 *	1
<u>Age Group</u>					
Under 15	3	3	1	1	0
15 thru 64	10	13	4	15	5
Over 64	9	7	5	6	9
<u>Cause of Fire</u>					
Smoking Mat.	13	5	6	7	5
Heating-Cooking	4	5	3	2	0
Incendiary	1	1	0	1	0
Electrical	3	9	1	3	2
Other	1	3	0	9 **	6

* Industrial

** Explosion

DIVISION OF SUPPORT SERVICES

The Division of Support Services is responsible for providing the physical support for the other programs of the Fire Department. This responsibility falls mainly into four distinct areas: water supply, equipment, communications, and physical plant. To accomplish the goals of the Division, the Chief of the Division of Support Services administers the activities of three bureaus: the Bureau of Engineering and Water Supply, the Bureau of Equipment, and the Bureau of Communications. In addition to these areas of responsibility, the Division also administers the Fire Department's Fireboat Program, acts as liaison with the Office of Emergency Services, administers special projects, supervises the handling of materials and supplies, and administers maintenance and capital improvement projects. Many of these duties of the Division are accomplished through working with other city departments and agencies which often includes serving on inter-departmental committees.

During fiscal year 1986-87, the Division surveyed 55 Department buildings for structural evaluation in order to establish capital improvement and maintenance needs. Additionally, the Division processed 1,190 building repair requests from the several stations and reported them to the Bureau of Building Repair, Department of Public Works, which is responsible for the maintenance and repair of the Fire Department's buildings.

Salvage Operations

Fire Department salvage operations assist in the protection of buildings and their contents, both personal and mercantile, from damage caused by fire and water. Support Services' personnel work with fire suppression units to account for salvage covers used and for sprinkler heads replaced by firefighting companies to restore sprinkler systems to service after a fire.

Salvage operations statistics for fiscal years 1985-86 and 1986-87 are as follows:

	<u>1985-86</u>	<u>1986-87</u>
1. Roof Covers used (No Charge)	55	30
2. Salvage Covers used (No Charge)	45	66
3. Rental Fees billed	\$1,760	\$1,002
4. Sprinkler Heads replaced	117	216

Fireboat Reconstruction Project

In April the Fireboat Phoenix was drydocked at Andersen and Christofani shipyard where it underwent major renovation. Further work was performed after the Phoenix returned to its berth at Pier 22 1/2 so that now the Fireboat is refurbished and is a modern, efficient complement of our firefighting capabilities.

Pier 22 1/2 Reconstruction

Although the finger pier has been completed by the Port, the Fire Department is still waiting for the storage shed to be built on the pier. The project is expected to be completed by October-November, 1987.

The substructure of the fire station is another matter. Despite pleas for several years now, the Port has taken no action. As soon as the substructure is rebuilt, the Fire Department will undertake the reconstruction of Station 35.

Capital Improvement Programs

During the last fiscal year, fire stations were equipped with new, telescoping-type apparatus doors. These new doors will hopefully reduce the excessive maintenance and repair costs associated with the older, overhead type doors. These new doors will not jamb in the event of a major earthquake trapping our apparatus inside the stations, for they are light weight and the panels could be readily removed in an emergency.

Seven battalion headquarters stations were equipped with emergency power generators. In the event of a major disaster with a prolonged power outage, these stations could properly function as Battalion Command Posts.

In order to comply with state mandates to protect the underground water from pollution, fuel tanks were removed by the Bureau of Engineering, Department of Public Works, because of the age or condition of the tanks. A program to replace the tanks with modern, double-walled, self-monitoring tanks will be undertaken to insure adequate fuel supply for the Fire Department's emergency equipment.

Looking toward the future, the Division of Support Services must meet a number of challenges. Proposition A, Fire Protection Improvement Bonds for 46.2 million dollars which was approved by the electorate in November, 1986, will draw heavily on the resources of the Division. The Bureau of Engineering and Water Supply and the Bureau of Equipment are involved in the fire protection improvement program, and this involvement will increase significantly as the program develops.

Several fire stations are in need of remodeling and many more are suffering from years of deferred maintenance. Preparing the Department for its first women firefighters has further impacted the Department's maintenance and replacement programs which were already curtailed by budgetary constraints of the past several years.

The Bureau of Equipment is in desperate need of an adequate facility from which to properly perform its duties. A modern, adequate facility would enable the Bureau of Equipment to consolidate its functions, promote efficiency, and reduce overhead costs associated with its operations.

In order to perform adequately in these areas--as well as maintain proficiency in fire fighting--and be responsive to the needs of the community, the infrastructure of the Department must be improved. The Bureau of Training facility has not been improved since its inception. There is a demonstrated, immediate need for more classroom space and modern technical aids to support training in the areas of the Department's new as well as traditional responsibilities.

Headquarters' functions have expanded greatly in the areas of prevention, personnel, recruitment, support, and administration and has outgrown the space available.

The Fire Department's fleet of firefighting apparatus and support vehicles is becoming aged as replacement programs have fallen behind schedule do to lack of funding. This not only decreases the reliability of apparatus, but also greatly increases maintenance and repair costs.

To face these challenges, the personnel of the Division of Support Services are considering options which might reduce costs, increase efficiency, and promote responsiveness to the needs of San Francisco.

EARTHQUAKE PREPAREDNESS PROGRAM

In November of 1986, Proposition A was passed by the voters of San Francisco by a record margin of 89 percent. This proposition was for a 46.2 million dollar bond issue dealing with earthquake preparedness.

To administer and manage this enormous project, Old Station 21, at 1152 Oak Street, was reopened to serve as Headquarters. Assistant Chief Frank Blackburn is the Project Manager and also serves as the designate water supply officer for the Fire Department. This important program addresses the emergency water supplies and other aspects of earthquake preparedness.

The construction of 94 additional cisterns, placing suction connections around the waterfront, and the extension of the high-pressure system to much needed areas are the key factors of this program.

In addition, emergency generators in the fire station, further development of the portable water system, purchase of hosetenders, construction and repair of pumping stations and installation of motorized gate valves in the high-pressure system are all integral parts of the program.

The coordination, additional development and the administration of the Portable Water System all take place at Station 21. This system, developed in 1985 by Chief Blackburn, has proved useful at several occasions already. The parts are manufactured at Central Shops and will soon be expanded with development of 15 Portable Water System High Pressure Battery Wagons throughout the Department.

One of the key parts of earthquake preparedness is Operational Planning. Currently, a committee, operating from Old Station 21, is developing such a plan for the San Francisco Fire Department.

The Public Information Program has been established and assigned to this office by the Chief of Department. (G.O. 87-A-58) This program was developed to encourage Fire Department personnel to keep the public informed of our concerns and at the same time find out the concerns of the public.

The San Francisco Fire Department has within the past few years become more involved with "Special Events." Through special events such as the San Francisco Fair, Golden Gate and Bay Bridge celebrations and Earthquake Week we are able to promote and educate the public on fire safety and earthquake preparedness.

The bi-monthly Newsletter that is published by this office keeps the public informed on the progress of the Bond Issue construction projects and other aspects of the Earthquake Preparedness Program.

The following pieces of Fire Department and antique apparatus are quartered at Old Station 21:

1. Fire Reserve ALF 900 Series pumper
2. 1928 Ahrens-Fox Pumper (1250gpm)
3. 1927 Bull Dog Mack Water Tower (W.T.3)

All apparatus is fully equipped and is fully operational.

The functions and activities at Old Station 21 are really in their infancy stage. We expect a rapid and effective growth for the years to follow. We foresee this program becoming a vital and integral member of the San Francisco Fire Department family.

BUREAU OF ENGINEERING AND WATER SUPPLY

The Bureau of Engineering and Water Supply, under the direction of a Senior Mechanical Engineer (Water Supply Superintendent), is responsible for the engineering and maintenance of the Auxiliary Water Supply System (High Pressure System); the maintenance of the hydrants connected to the domestic water supply system; the maintenance of Fire Department cisterns; the inspection of standpipes on public and private buildings; and any day-to-day professional engineering assistance required by the Fire Department.

There are 150 cisterns located throughout the City for emergency water supply; the majority of the cisterns each contain 75,000 gallons of water and are kept filled by Bureau of Engineering and Water Supply personnel.

Combination and dry standpipes on buildings are tested by the Bureau before acceptance and after alteration or repair and are periodically inspected. In the Fiscal Year 1986-87, 62 new standpipes were placed in service; two (2) were repaired; and five (5) were altered. Records show that standpipes are installed in 2,832 buildings, each containing one (1) or more standpipes.

The two High Pressure Pumping Stations operate with reduced personnel. Station No. 2 is fully manned at all times. Station No. 1 is manned on the day shift only in order to periodically operate the equipment and to provide for both routine and preventive maintenance work.

The Bureau of Engineering and Water Supply maintains approximately 120 miles of pipe which supplies 1,454 fire hydrants in the High Pressure System, and maintains 8,114 low pressure fire hydrants connected to the domestic water supply system.

The objectives of the Bureau are to service 30 percent of the hydrants, to paint 25 percent of the hydrants, and to operate one-third of the estimated 3,600 valves installed in the High Pressure System, each year. The Bureau of Engineering and Water Supply met these objectives as follows during Fiscal Year 1986-87:

	<u>Objective</u>	<u>Performance</u>
H.P. Hydrants Serviced	444	403
H.P. Hydrants Painted	372	434
H.P. Valves Tested	1,200	1,122
L.P. Hydrants Serviced	2,436	3,719
L.P. Hydrants Painted	2,028	1,959

BUREAU OF EQUIPMENT

The Bureau of Equipment is staffed by one officer and eight firefighters. It is responsible for all scheduled and unscheduled maintenance, sets all repair priorities, and inspects the Department's motorized apparatus. The Bureau also works very closely with the Purchasing Department's Central Repair Shops.

During the past fiscal year, 1986-87, the Bureau of Equipment met or exceeded its MBO goals: all ladders and pumps were tested. The issuance of firefighting hose exceeded the objective goals and made up last year's shortage.

The Bureau of Equipment responded to all greater alarms and many special calls during the past year. They assisted the units at the scene either by the operation of special equipment or as otherwise requested by the incident commander.

The Bureau is responsible for all repairs to equipment when the Central Repair Shops are unable to give the Department the required service. (nights, weekends, holidays and other emergency times)

The Bureau works very closely with other city departments (Police, Health, Recreation and Park, Muni and Public Works) when requested; it performs emergency repairs and assists in other emergency situations that usually require the use of the Department's wrecker (tow truck) and the members' invaluable experience. Altogether, the Bureau assisted other city department on 32 different occasions last year.

The Bureau handled over 11,000 requests for materials, equipment, or supplies and responded to 215 calls with the heavy wrecker.

The Bureau also services all department extinguishers, repairing and refilling, and repairs small power tools.

The Bureau of Equipment is active in many state organizations including NAFER (Northern Area Fire Equipment Research) and the California Fire Chiefs' Association, Fire Service Mechanics' Section, Northern Division. Through these organizations, the Department is able to give input to and gather information from other fire service agencies. The Bureau works very closely with other local departments in the use and evaluation of all types of fire suppression equipment.

The Bureau of Equipment is responsible for the specifications for all the equipment purchased for firefighting. To help in the process of finding and keeping up with the latest in the field of firefighting equipment, the Chief of Department has formed the apparatus and equipment committee. The officer in charge of the Bureau of Equipment is the chairman of the committee. The committee is made up of members of the Department. Members come from all ranks and have shown great enthusiasm for the opportunity to have more input into the type and quality of equipment used by the Department.

The Department is expecting delivery of two (2) pumpers, one (1) 100-foot aerial ladder truck, ten (10) automobiles, one (1) rescue truck and one (1) hose tender before the end of 1987, one (1) pumper and one (1) 100-foot aerial in the early part of 1988. All of these are replacement vehicles from 1985 and 1986 budgets.

SAN FRANCISCO FIRE DEPARTMENT APPARATUS

Firefighting Equipment

In-Service Engine Companies.....	41
Relief Engines.....(allotted 15)..actual.....	12
In-Service Aerial Companies, 100-foot.....	17
In-Service Snorkel, 85-foot.....	1
Relief Aerials, 100-foot..(allotted 8)..actual.....	5
Heavy Rescue.....	2
Relief Rescue.....	1
In-service Chiefs' Automobiles.....	16
Relief Chiefs' Automobiles.....	4
Cliff Rescue Unit.....	1
Hose Tender/Squirt 54-foot.....	3
Hose Tender/Battery w/5-inch hose.....	3
Light Unit.....	1
Foam Unit.....	1
Utility Unit.....	1
Service Squad, Breathing Air.....	1
Relief Service Squad.....	1
Hazardous Material Unit.....	1
Miscellaneous Support Vehicles.....	24

Division of Fire Prevention and Investigation

Automobiles.....	30
Van.....	2

Bureau of Engineering and Water Supply

Vehicles (Pickup trucks, valve units, crane truck, etc.)	26
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WATER RESCUE TEAM

The San Francisco Fire Department's Water Rescue Team is under the direction of Temporary/Assistant Chief Bill Richardson. There are two teams of divers: Team 1 consists of all San Francisco Fire Department divers stationed within the city limits of San Francisco and is under the direct supervision of Captain John Rebholtz, Rescue Squad 2, Team 2 is located at the San Francisco International Airport and is under the supervision of Firefighter Jack McManus. The Airport Division is soon to take command of a newly designed dive and rescue boat. It will contain state of the art equipment.

During the past fiscal year, the divers of the Water Rescue Team responded to nearly 50 water related emergencies. Companies stationed near the ocean beach were trained in surf rescue techniques. During the next fiscal year, it is hoped that training of new interested firefighters will result in certification of more divers.

Dive drills are held the third Friday of the month. Several of these drills are coordinated with the Navy, USCG, Park Service, and the EMS.

SAN FRANCISCO FIRE DEPARTMENT

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Annual Report
1987 - 1988

CITY AND COUNTY OF SAN FRANCISCO
SAN FRANCISCO FIRE DEPARTMENT

FREDERICK F. POSTEL, *Chief of Department*
MICHAEL T. FARRELL, *Deputy Chief...Operations*
JOHN F. BOSCACCI, *Deputy Chief...Administration*



260 GOLDEN GATE AVENUE
SAN FRANCISCO, CALIFORNIA, 94102
(415) 881-8000, EXTENSION 281

December 1, 1988

Honorable President and
Members of the Fire Commission

Dear Commissioners:

In accordance with Charter Section 3,501, I respectfully submit the San Francisco Fire Department's Annual Report for 1987-88.

During this Fiscal Year, Edward J. Phipps retired as Chief of Department and Gerald Cullen retired as Deputy Chief of Administration. Appointed as new Deputy Chief of Administration was Assistant Chief John F. Boscacci.

Respectfully submitted,

Frederick F. Postel
Frederick F. Postel
Chief of Department

FFP:fp

THE CHIEF'S MESSAGE

This year can best be characterized as a year of transition. The confluence of a Federal Consent Decree, an increased need and desire to respond to the needs of the City's various cultural communities and a shortfall in the City's finances has created a mandate for change. The Department's new senior management team, working under a new Fire Commission, has made substantial progress towards implementing these changes and continuing to provide the citizens of San Francisco an effective and professional Fire Department.

This year will be remembered for several notable firsts. Under authorization by the Federal Court, the 73rd and 74th recruit classes of the San Francisco Fire Department were sworn in. These were the first new firefighters to be hired by the San Francisco Fire Department in more than six years. Although appointed prior to its actual implementation, these classes were the first to reflect the hiring goals set by the Consent Decree. They will probably be best remembered, however, for another first - their inclusion of the first female firefighters ever to enter the San Francisco Fire Department.

To aid in the transition from an all male Fire Department, new departmental guidelines were developed and, where necessary, station facilities were appropriately modified. Human relations courses were conducted for all Fire Department members and special training was also provided to field training officers. As a result of this careful preparation and cooperative effort, the transition has been a smooth and rewarding one.

For the first time in many years, the Department appointed a number of new lieutenants. These appointments were the first to be made under the guidelines set by the Consent Decree.

Fiscal 1987-88 was also a year of historical significance for the Auxiliary Water Supply System. In response to the current drought, the Fire Department began using San Francisco Bay as the water supply for the lower zone of the system. This saves approximately 7,500,000 gallons of fresh water each month.

San Francisco International Airport again received the Aviation Institute Award as the Safest Airport in the United States. This was due in large measure to the Crash/Fire preparedness provided by the San Francisco Fire Department.

This year marked the inauguration of a new and innovative physical fitness program. The program, which is conducted at the Ralph K. Davies Medical Center "Health Chek" facility, is aimed at fostering a healthier, more active lifestyle for firefighters and also at identifying problems that demand immediate attention. In addition to physical testing, a Diet Analysis Program is also being offered to firefighters for the first time.

The Bureau of Fire Prevention has developed three revenue generating programs which, if approved by the Board of Supervisors, will defray the cost of the Bureau's operations. The Bureau's Plan Checking personnel continue to generate significant funds and the high rise inspection activity generated sufficient funds to defray 92% of the cost of these inspections.

Based on a study which showed that seniors represented 80% of the past fire fatalities, a fire safety program has been developed and implemented specifically aimed at this large group of citizens. A review of the 1987-88 fire death statistics has shown that the rate of fire fatalities among seniors (age 50 plus) has dropped from 80% to 32%.

Inroads have been made in rebuilding and reinforcing several areas of the Departments infrastructure. For example, plans are being completed for replacing the Department's Computer Aided Dispatch System at the Communications Center and the Project Management Program for the 1986 Fire Protection Bond Program is on schedule and on budget. Under the direction of the Mayor, the Fire Department, the Purchasing Department and the Chief Administrative Officer's Department, a revised Equipment Replacement Schedule (ERS) is being developed for the acquisition of new equipment.

In Fiscal Year 1987-88, Fire Suppression experienced a 17% increase in the number of responses. Although greater alarms increased by 27%, the total number of actual fires remained fairly constant. However, there was a dramatic

increase in the number of medical emergency responses - more than 45%. These figures indicate clearly the public's increasing reliance on the Fire Department for emergency medical assistance.

In order to meet this increasing demand and to keep pace with changing technology, firefighters have upgraded their skills, for example, in AIDS awareness, in First Responder medical first aid training, and in the handling of hazardous materials incidents. Through their efforts and accomplishments, the Fire Department has continued to carry on the tradition of unexcelled service to the people of San Francisco.

I wish to thank Mayor Art Agnos, the Fire Commission, the Board of Supervisors and the people of San Francisco for their continued support of the San Francisco Fire Department and its commitment to safeguarding the lives and property of all of San Francisco's citizens.

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Administration

SAN FRANCISCO FIRE DEPARTMENT
HEADQUARTERS
260 Golden Gate Avenue
San Francisco, California 94102

FIRE COMMISSION

Henry E. Berman	- President	(Res. 04-13-88)
Curtis McClain	- Vice-President	(Res. 04-13-88)
Juanita Del Carlo	- Commissioner	(Res. 04-13-88)
Richard J. Guggenheimer	- Commissioner	(Res. 04-13-88)
Anne S. Howden	- Commissioner	(Res. 04-13-88)
James D. Jefferson	- President	(Apptd. 04-14-88)
John W. Keker	- Vice-President	(Apptd. 04-14-88)
Henry E. Berman	- Commissioner	(Apptd. 04-14-88)
Sharon L. Bretz	- Commissioner	(Apptd. 04-14-88)
Frank A. Quinn	- Commissioner	(Apptd. 04-14-88)
Raymond G. Connors	- Fire Commission Secretary	Room 204

ADMINISTRATION

Chief of Department		
Edward J. Phipps (Retired 01-30-88)		
Frederick F. Postel (Appointed 04-14-88)		Room 225
Deputy Chief of Department		
Michael T. Farrell		Room 225
Assistant Deputy Chief		
Gerald C. Cullen (Retired 05-07-88)		
John F. Boscacci (Appointed 06-16-88)		Room 209
Division of Fire Prevention and Investigation		
Joseph A. Medina - Fire Marshal		Room 327
Division of Support Services		
Howard L. Slater - Division Chief		Room 210
Division of Management Services		
Oliver C. Storti - Division Chief (Ret. 03-12-88)		
William G. Richardson - Division Chief		
(Appointed 05-11-88)		Room 312
Gary J. Torres - Battalion Chief - Mgt. Info. Svcs.		
Personnel Center		
Frank J. Dunphy - Battalion Chief		Room 314

Administration

Bureau of Engineering and Water Supply
Andrew K. Nielsen - Superintendent

Room 219

Fire Department Physician
William A. Newsom, M.D.

Room 307

Division of Airports

Ray A. Landi - Division Chief (Reassigned 09-20-87)
George E. Berthold - Division Chief
(Assigned 09-21-87)

S.F. Internat'l Airport

Bureau of Training

Frederick F. Postel - Battalion Chief
Frederick F. Postel - Assistant Chief
(Reassigned and Apptd. Chief of Dept. 04-14-88)

2310 Folsom Street

Bureau of Equipment

Gilbert A. Moreno - Special Services Officer

2501 - 25th Street

Bureau of Communications

John Mandas - Battalion Chief
Peter Turdici - Captain (Retired 02-20-88)

1003 Turk Street

FIRE DEPARTMENT CHAPLAINS

Catholic Chaplain

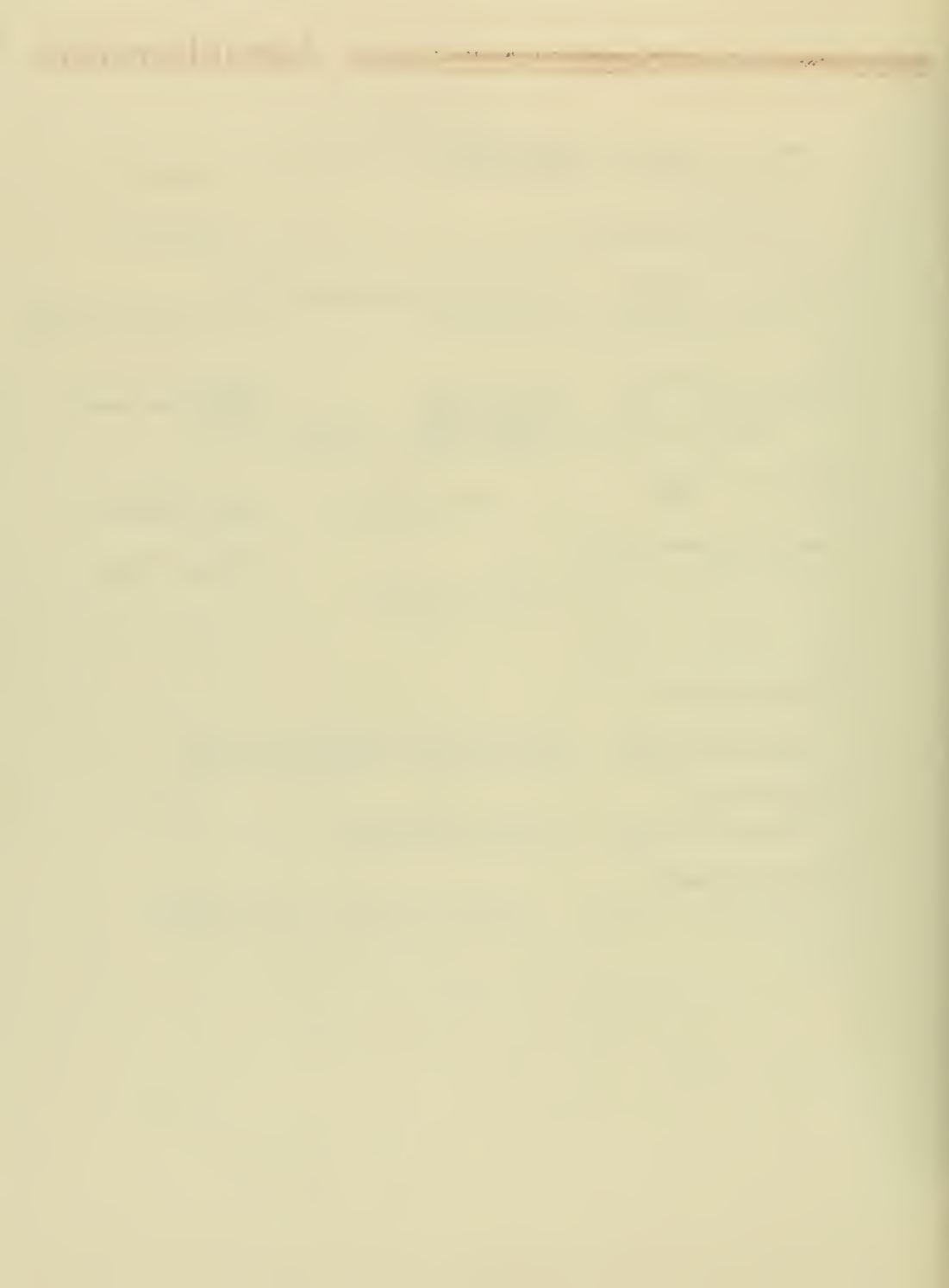
Father John Greene - St. Thomas More Church
Father John Wester - Mission Dolores (Appointed 03-11-87)

Jewish Chaplain

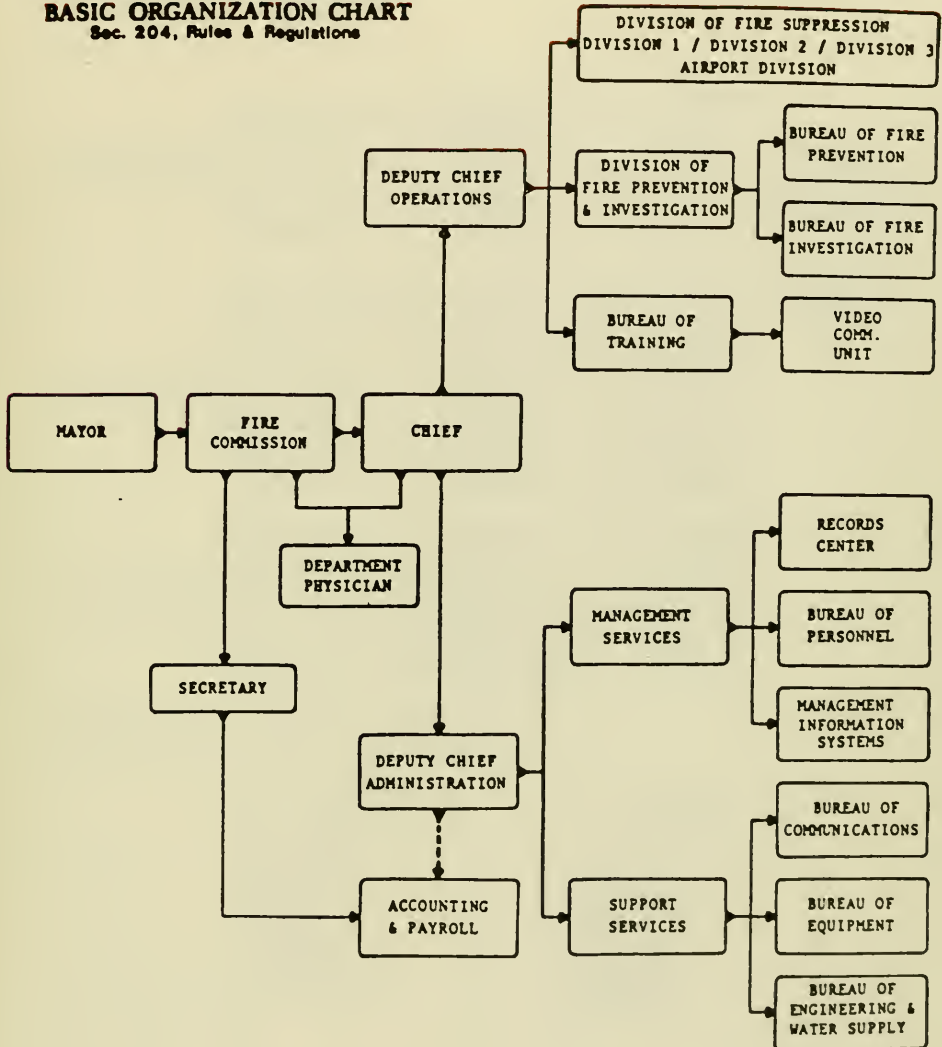
Rabbi Martin Weiner - Temple Sherith Israel

Protestant Chaplain

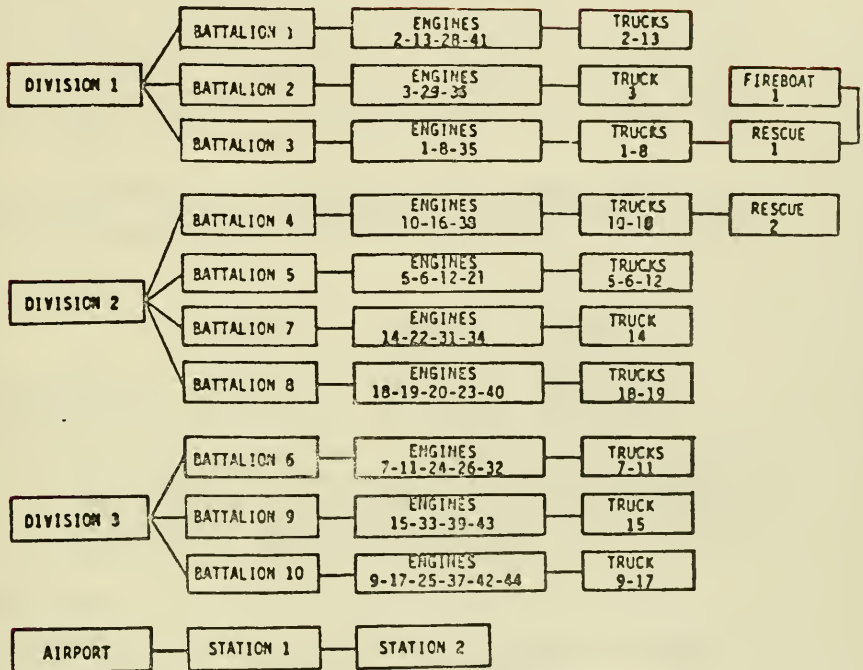
Reverend T. L. Thomas - Mount Zion Missionary Baptist Church



**SAN FRANCISCO FIRE DEPARTMENT
BASIC ORGANIZATION CHART**
Sec. 204, Rules & Regulations



SAN FRANCISCO FIRE DEPARTMENT
BASIC ORGANIZATION CHART
 Sec. 204, Rules & Regulations



IN SERVICE
3 DIVISIONS
10 BATTALIONS
41 ENGINES
18 TRUCKS
2 RESCUE
1 FIREBOAT
1 SERVICE SQUAD
1 AP SECTION

IN RESERVE
2 SALVAGE
3 ATTACK HOSE TENDERS
3 HOSE TENDERS
1 SEARCHLIGHT
1 UTILITY UNIT
2 FUEL UNITS
1 VALVE UNIT
1 FOAM UNIT
4 MINI-PUMPERS

FISCAL

Budget - Personnel Cost

Rates of compensation for uniformed members of the Fire Department are established in accord with procedures set forth in Charter Section 8.405. These procedures include an annual survey of the rates of compensation paid firefighters employed in California cities with a population of 350,000 or more. The Civil Service Commission conducts the survey, and the rates they certify to the Board of Supervisors are the average of the maximum rates paid to firemen in the surveyed cities.

The personnel costs shown below include permanent salaries and wages, overtime, holiday, differential pay and temporary salaries for uniformed members:

Personnel Costs

	<u>1986-1987</u>	<u>1987-1988</u>	<u>Increase</u>
Revised Budget	\$67,162,472	\$71,279,144	\$4,116,672
Actual Expended	\$66,314,305	\$70,426,618	\$4,112,313

Note: Rates of compensation for 1987-1988 increased 4.7477% above 1986-1987. Prop I (approved 11-04-86) required new salary survey for cities that approved pay raises after August 25th. There were three such surveys in 1987-88. There was no cost of living increase.

Budget - Data

During 1987-1988, budget allowances and expenditures compared to 1986-1987 for the Fire Department were as follows:

	<u>1986-1987</u>	<u>1987-1988</u>	<u>Increase</u>
Budget Allowances	\$131,809,223	\$132,585,030	\$ 775,807
Expenditures	\$130,010,410	\$130,916,941	\$ 906,531

Expenditure categories and percentages are as follows:

Personnel Services and Fringe Benefits	\$125,758,978	96.06%
Professional Services	902,573	.69
Other Contractual Services	128,689	.10
Travel/Training	11,889	.01
Other Services	272,882	.21
Materials and Supplies	518,999	.40
Fixed Charges (meritorious awards, dues)	3,115	.00
Equipment Purchases	1,160,690	.89
Services of Other Departments	2,159,126	1.65
TOTAL	\$130,916,941	100.00%

Administration

Recapitulation of Budget Allowances and Expenditures:

Description	Budget	Expended	Under/(Over) Expended
Personnel Salary and Wages			
Permanent Salaries - Misc.	\$ 1,919,873	\$ 1,809,353	\$ 110,520
Permanent Salaries - Uniformed	54,927,201	54,484,473	442,728
Permanent Salaries - Craft	885,881	732,042	153,839
Differential Pay	138,873	101,973	36,905
Temporary Salaries	53,311	50,359	2,952
Overtime	41,669	41,665	4
Holiday Pay	4,729,227	4,357,667*	371,560
Extended Work Week			
Extended Work Week - City	10,109,000	10,108,355**	645
Extended Work Week - AP & Port	504,000	503,312***	688
Mandatory Fringe Benefits	52,994,490	52,698,941	295,549
Payment in lieu of Sick Leave	870,838	870,838	0
Sub-Total	\$127,174,368	\$125,758,978	\$1,415,390
Professional Services	1,092,388	902,573	189,815
Other Contractual Services	129,000	128,689	311
Travel/Training	13,326	11,889	1,437
Telephone, and Other Services	286,823	272,882	13,941
Materials and Supplies	549,805	518,999	30,806
Fixed Charges			
(meritorious awards, dues)	5,485	3,115	2,370
Equipment Purchases	1,161,125	1,160,690	435
Services of Other Departments:			
Police	21,540	21,540	0
Health Dept. -			
SFGH/HazMat/EAP/Coroner's	23,900	23,900	0
Electricity	38,514	38,514	0
Central Shops	1,550,699	1,550,699	0
Civil Service - Training	300	0	300
Civil Service	18,605	18,366	239
Water Department	27,830	27,830	0
DPW - Street Repair	10,000	9,999	1
DPW - Sewer Service Charges	45,781	39,624	6,157
DPW - Building Repair	29,900	29,899	1
Light, Heat & Power	379,970	379,969	1
Controller - ISD	22,672	15,787	6,885
Reproduction Bureau	2,999	2,999	0
TOTAL	<u>\$132,585,030</u>	<u>\$130,916,941</u>	<u>\$1,668,089</u>

Administration

*Includes \$77,154.07 transferred on June 30, 1988, to fund the Consent Decree. Consent Decree funding in the amount of \$532,000 was approved in Ordinance No. 221-87 on June 19, 1987, and carried forward to 1987-1988.

**Includes \$627,320 for Vacation Ordinance pay; includes \$1,000,000 reappropriated from Permanent Salaries & Mandatory Fringe Benefits.

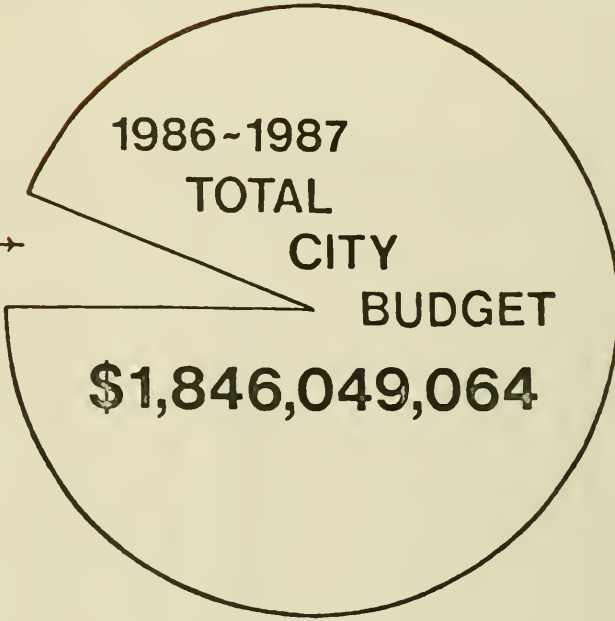
***Includes \$29,798 (\$27,142 - Airport, \$2,656 - Port) for Vacation Ordinance pay.

Department Revenues

Estimated revenues and amounts collected during 1987-1988 were as follows:

<u>Account</u>	<u>Description</u>	<u>Estimated</u>	<u>Collected</u>
7166	Posting fees	\$313,791	\$399,390
7167	Original filing fees	54,000	78,168
7192	Roof & Salvage covers	2,108	3,544
7216	Miscellaneous service charges	36,578	41,712
7299	High Rise Inspection Fees	805,644	671,082
	TOTAL	<u>\$1,212,121</u>	<u>\$1,193,896</u>

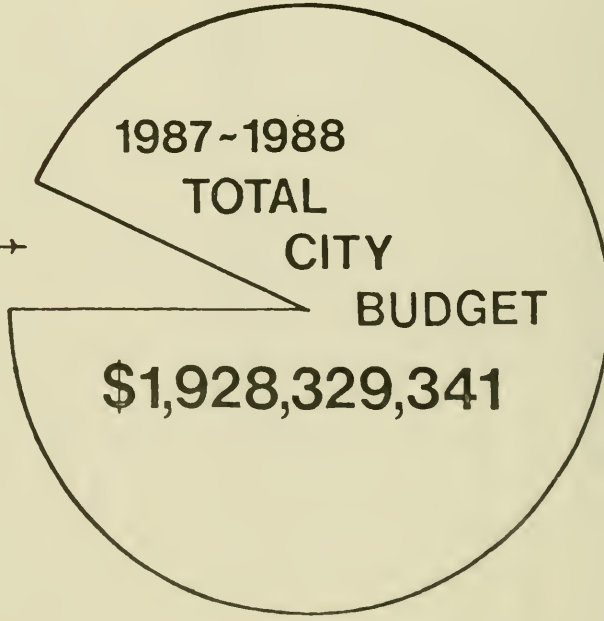
1986 - 1987
TOTAL
FIRE DEPARTMENT
BUDGET
\$131,809,223
or 7.14%
of the TOTAL
CITY BUDGET



1986-1987
TOTAL
CITY
BUDGET
\$1,846,049,064

A pie chart representing the 1986-1987 Total City Budget. A wedge-shaped slice is removed from the top-left, representing the Fire Department Budget. An arrow points from the text on the left to this slice.

1987-1988
TOTAL
FIRE DEPARTMENT
BUDGET
\$132,585,030
or 6.88%
of the TOTAL
CITY BUDGET



1987-1988
TOTAL
CITY
BUDGET
\$1,928,329,341

A pie chart representing the 1987-1988 Total City Budget. A wedge-shaped slice is removed from the top-left, representing the Fire Department Budget. An arrow points from the text on the left to this slice.

Administration

SAN FRANCISCO FIRE DEPARTMENT - AUTHORIZED PERSONNEL BUDGET - 1987-1988 NON-UNIFORMED PERSONNEL

SUPPRESSION: Bureau of Training	1	1426 Sr. Clerk Typist
PREVENTION:	2	1424 Clerk Typist
	2	1426 Sr. Clerk Typist
	1	1446 Secretary II
	1	1450 Executive Secretary I
	2	5215 Fire Protection Engineer
	6	6280 Fire Safety Inspector I*
	12	6281 Fire Safety Inspector II**
INVESTIGATION:	1	1426 Sr. Clerk Typist
SUPPORT SERVICES:	1	1446 Secretary II
	1	1924 Materials & Supplies Supv.
	1	2708 Custodian
	1	5258 Sr. Mechanical Engineer
	1	5362 Civil Engineer Asst. II
	1	7205 Chief Stationary Engineer
	1	7335 Sr. Stationary Engineer
	1	7230 Water System Supv.
	1	7323 Water System Asst. Supv.
	4	7334 Stationary Engineer
	10	7338 Utility Plumber
	1	A712 Hydrant Service Person
	2	7514 General Laborer
ADMINISTRATION:	5	0160 Member, Fire Commission
	1	1202 Personnel Clerk
	1	1204 Sr. Personnel Clerk
	2	1220 Payroll Clerk
	2	1222 Sr. Payroll & Pers. Clerk
	1	1224 Princ. Payroll & Pers. Clerk
	2	1424 Clerk-Typist
	2	1426 Sr. Clerk-Typist
	2	1446 Secretary II
	1	1450 Executive Secretary I
	1	1454 Executive Secretary III
	1	1540 Secretary, Fire Commission
	1	1650 Accountant
	1	1654 Principal Accountant
	5	1708 Sr. Telephone Operator
	1	1842 Management Assistant
	1	1874 Sr. Programmer Analyst
	1	2220 Physician
	1	8165 Worker's Comp. Supv. I
Total Non-Uniformed Personnel	86	
Total Uniformed Personnel	1511	
TOTAL Department Personnel	1597	

*One 6280 is assigned to, and funded by, Airport

**One 6281 is assigned to, and funded by, DPH

Administration

SEPARATIONS FROM SERVICE - UNIFORMED FORCE

	<u>Effective Date</u>	
<u>0140 Chief of Department</u>		
Edward J. Phipps	Jan. 30, 1988	S
<u>0145 Assistant Deputy Chief</u>		
Gerald C. Cullen	May 07, 1988	S
<u>H50 Assistant Chief</u>		
Richard E. Groger	Jul. 25, 1987	S
Oliver C. Storti	Mar. 12, 1988	S
<u>H40 Battalion Chief</u>		
Alfred P. Kenny	Feb. 20, 1988	S
Alfred E. Smyth	Mar. 27, 1988	S
Gerald B. Mahoney	Jun. 01, 1988	S
<u>H30 Captain</u>		
Ronald M. Cutler	Jul. 03, 1987	Ind. Dis.
Jack Kermoian	Sep. 30, 1987	Ind. Dis.
Jack D. Polan	Feb. 21, 1988	S
Peter P. Turdici	Feb. 20, 1988	Ind. Dis.
<u>H22 Lieutenant, BFP</u>		
Walter R. Heath	Aug. 01, 1987	S
<u>H20 Lieutenant</u>		
Rudolph R. Ryan	Aug. 28, 1987	S
Wayne W. Knutsen	Nov. 01, 1987	Ord. Dis.
Donald V. Evanoff	Jun. 30, 1988	S
<u>H10 Chief's Aide</u>		
Richard J. Tomlinson	Feb. 28, 1988	Dec.
Eugene L. Gard	Mar. 20, 1988	S

Effective Date

H2 Firefighter

Gilbert J. Schmitz	Jul. 06, 1987	S
Jeffrey J. Farber	Apr. 01, 1986	Ind. Dis.
Robert E. Callaghan	Mar. 03, 1986	Ind. Dis.
Pierre A. Loustalet	Aug. 20, 1987	S
Gilbert J. Schoenstein	Jul. 02, 1987	Ind. Dis.
Christine L. Bahr	Dec. 02, 1987	Term.
Kathryn D. Morrison	Dec. 02, 1987	Term.
Donald C. Pichel	Sep. 19, 1987	Ind. Dis.
Daniel F. Banks	Dec. 01, 1987	S
Michael P. Lawler	Feb. 11, 1988	Res.
David A. Dyc	Jan. 29, 1988	Ind. Dis.
John T. Golden	Feb. 06, 1988	S
Leon Bruschera	Feb. 09, 1988	Ind. Dis.
Douglas W. Richmond	Mar. 09, 1988	Term.
Stanley M. Ingram	Mar. 01, 1988	S
Robert L. Stephenson	Mar. 01, 1988	S

TOTAL UNIFORMED FORCE SEPARATIONS

Retirement (Service)	18
Retirement (Ind. Dis.)	9
Retirement (Ord. Dis.)	1
Resignation (Res.)	1
Termination (Term.)	3
Deceased (Dec.)	<u>1</u>
Total	33

Administration

SEPARATIONS FROM SERVICE - CIVILIAN

Effective Date

7388 Utility Plumber

John J. Sangiacomo	Jul. 01, 1987	S
Francis J. Gojny	Nov. 28, 1987	S
Roger Brown	Feb. 19, 1988	Res.

7334 Stationary Engineer

Mark Brown	Jul. 30, 1987	Res.
------------	---------------	------

7230 Water System Supervisor

Alfred C. Araldi	Jul. 01, 1987	S
------------------	---------------	---

1450 Executive Secretary I

Susan M. Keller	Dec. 11, 1987	Res.
-----------------	---------------	------

1446 Secretary II

Maureen A. Hogan	Aug. 07, 1987	Res.
Fe B. Conway	Mar. 31, 1988	Res.

1426 Senior Clerk Typist

Maria-Irma I. Kelley	Oct. 16, 1987	Res.
----------------------	---------------	------

1424 Clerk Typist

Loyola C. Storti	Jul. 17, 1987	NCS Sep.
Nancy E. Snyder	Oct. 02, 1987	Res.

APPOINTMENTS

1987-1988

0140 Chief of Department

Frederick F. Postel Apr. 14, 1988

0145 Assistant Deputy Chief

John F. Boscacci Jun. 16, 1988

H50 Assistant Chief

Frederick F. Postel Aug. 31, 1987
William G. Richardson May 11, 1988
Gary L. Musante Jun. 20, 1988

H40 Battalion Chief

John J. Bogue, Jr. TCS Aug. 31, 1987

H30 Captain

Timothy F. O'Brien Jul. 01, 1987
Richard J. Seyler Aug. 31, 1987
Robert C. Jabs Sep. 25, 1987

H10 Chief's Aide

John J. Ferrando Jul. 11, 1987
Federico J. Sanchez Aug. 26, 1987

H22 Lieutenant, BFP

William P. Jovick Lim. Ten. Apr. 29, 1988

H6 Investigator

Peter J. Schembri Jun. 13, 1988

H110 Marine Engineer of Fireboat

Nathan J. Hardy Mar. 09, 1988

Administration

H2 Firefighter

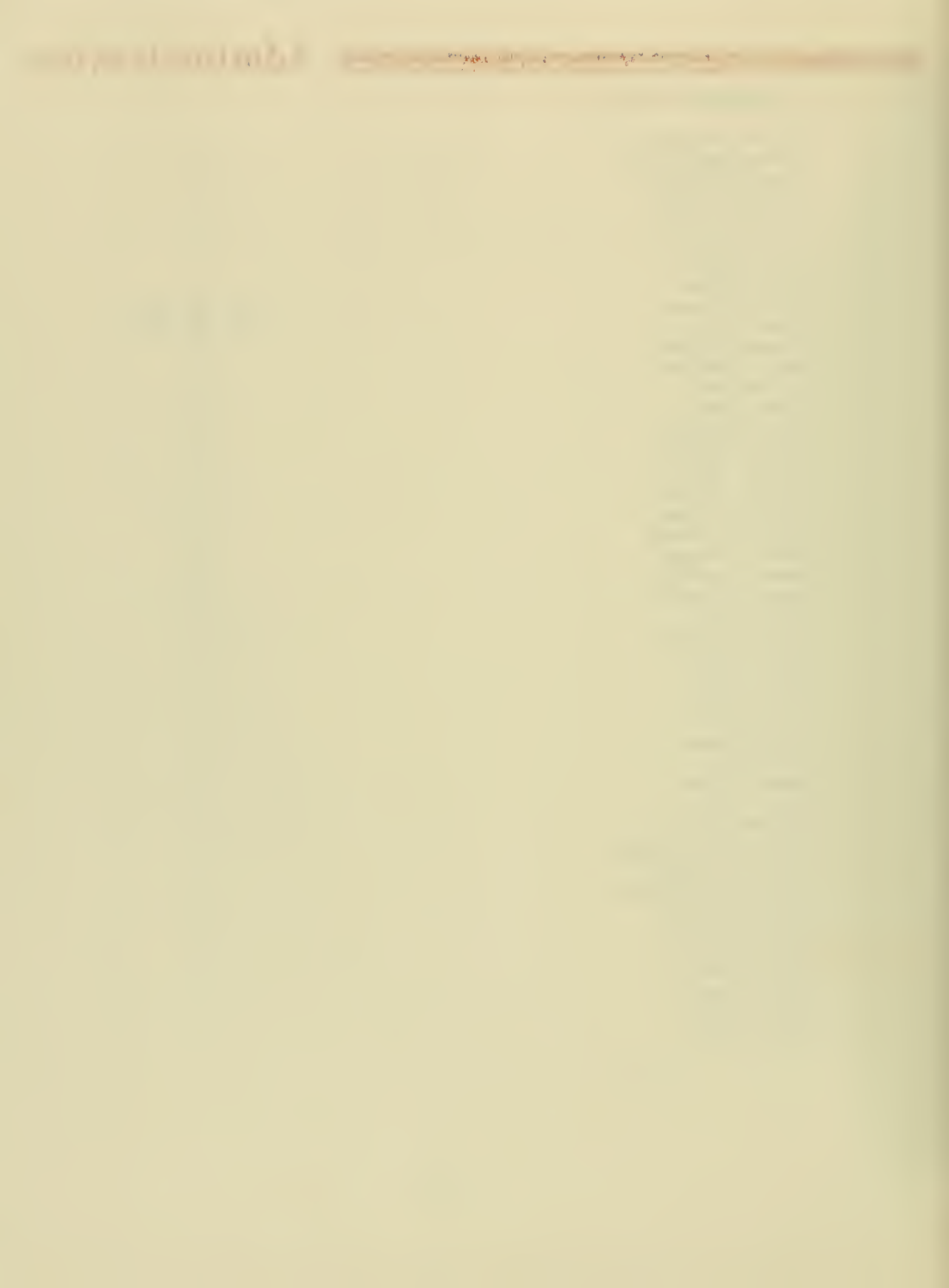
Kenneth A. Ahrens (returned to H2 FF from L/T H20 Lieut.)	May 27, 1988
Mack Arther Ross (returned to H2 FF from H10 Chief's Aide)	May 27, 1988
Jerry Puckett (returned to H2 FF from H10 Chief's Aide)	Jun. 15, 1988

H20 Lieutenant

Audry Lee	Mar. 09, 1979
Bernne Wangara	"
Tyrone Rockett	"
Worthy Brooks	"
Robert Demmons	"
Jimmie Braden	"
Richard Robinson	Jun. 30, 1988
John Hester	"
Early Davis	"
Henry Manning	"
Daniel Miller	"
Ozell Austin	"
Ernest Ware	"
Adam Young	"
James Dunson	"
Rod Bennett	"
George Drake	"
Alex King	"
Johnny Lo	"
Eugene Baraona	"
Armando Mayorga	"
Philip Leanio	"
Bernie Lee	"
Alson Lee	"
Richard Gutierrez	"
Gilbert Cortez	"
Federico Sanchez	"
Gary Leal	"
Robert Kim	"
Roland Lee	"
Paul Chin	"
Ronald Rodriguez	"
Victor Pagan	"
Rene Revel	"
James Connors	"
Joseph Asaro	"
Lawrence Giovacchini	"
Aaron C. Stevenson	"

H20 Lieutenant (Continued)

Robert Andersen	"
Alfred Quartaroli	"
Raymond Dito	"
Kenneth Farris	"
Frank Cardinale	"
King Strong	"
George Ripoll	"
James McHugh	"
Manuel Vasquez	Jun. 30, 1988
Edward Cruz	"
Joseph Higgins	"
Romero Mabutas	"
Sam Harper	"
James Romeyn	"
Gary Montague	"
Michael Kearney	"
Patrick White	"
Richard Shortall	"
John McAlister	"
Eugene T. Murphy	"
John A. Murphy	"
James Harrington	"
Marcus Gonzales	"
Michael Ryan	"
Richard Kochevar	"
Thomas Smith	"
Michael Jones	"
Philip Kelber	"
Ray Zanini	"
Philip Garcia	"
Leslie Moy	"
Robert Childs	"
Leroy Character	"
William Tobin	"
Christopher Gargano	"
Patrick Casserly	"
Theodore Corporandy	"
Joseph Moriarty	"
Thomas Doudiet	"
Richard Brown	"
John Forbes III	"
Richard Ames	"
Garry Bradford	"
Kevin Walsh	"



Administration

H2 Firefighter (Perm. L/T - Provisional)

Thomas R. Bailon	Aug. 17, 1987
Frances D. Boyle	"
Daniel M. Bright	"
Jerry E. Butler	"
Mary M. Carder	"
Rudy J. Castellanos	"
Richard W. Cotton	"
Edward J. Ghilardi	"
Stephen J. Gonzales	"
Raymond A. Guzman	"
Leonard Harris	"
Patrick J. Hickey, Jr.	"
Scott A. Keller	"
Eileen M. McCrystle	"
Richard E. McGee	"
James E. Mellberg	"
Eli F. Payton	"
Thomas A. Rey	"
Siulagi L. Sala	"
Keith L. Sever	"
Kevin D. Taylor	"
Peter L. Walker	"
Gerald L. White	"
Anne M. Young	"
Christine L. Bahr	Oct. 26, 1987
Joseph M. Barbero	"
Michael N. Campanali	"
Theodore R. Carter	"
David J. Chavez	"
Sara Coe	"
William C. Davis	"
Gary J. Falls	"
James R. Fewell	"
Dennis E. Field	"
Thomas R. Gorman	"
Alan L. Harvey	"
Victoria A. Hayden	"
Kenneth G. Hoover	"
Carlos Hoy	"
Darryl Hunter	"
Shelia V. Jordan	"
Lauifi F. Mauga	"
Kathryn D. Morrison	"
Dwight Newton	"
Gregory L. Stewart	"
Martien J. Verhaeg	"
Gregory J. Zanders	"
Daniel G. Kelly	Nov. 02, 1987

Return to Former Classification

a) H2 Firefighter

*Peter J. Ackenheil	Jun. 30, 1988
David J. Adams	"
*Paul E. Alber	"
Richard P. Allen	"
John G. Beckerley	"
Robert G. Blackburn	"
*John F. Brajkovich	"
Peter J. Brandt	"
*Robert J. Burrowes	"
Thomas P. Callen, Jr.	"
Garet J. Caufield	"
John M. Chapman	"
Edward F. DeCossio	"
William M. Disbury	"
Robert J. Dunne	"
James M. Fitzpatrick	"
Jack A. Giessler	"
*Richard J. Goodsell	"
Robert T. Gregg	"
Patrick E. Grimesey	"
Michael T. Hennigan	"
Thomas J. Kelly	"
Michael C. Kiser	"
Robert F. Lamey	"
Leo F. Martinez	"
*Robert M. McGuire	"
Michael F. McLaughlin	"
William M. Moe	"
Robert M. Molinari	"
Eugene W. Murphy	"
Michael J. Nolan	"
*Timothy B. Nolan	"
Floyd L. Oakley	"
*Jack F. Pacheco	"
Dennis J. Pardini	"
John R. Porter	"
*John J. Puccinelli	"
*Allen J. Reinstadler	"
*Richard F. Richardson	"
*John R. Schnapp	"
Patrick M. Skain	"
John A. Sudano	"
William C. Sutherland	"
*Gary D. Tishma	"
*Robert L. Vergano	"
John J. Walsh	"

b) H10 Chief's Aide

*Paul J. Murray

"

Michael R. Rogers

"

Paul M. Sheehan

"

*To receive compensation as H20 Lieutenant while on disability leave.

APPOINTMENTS - MISCELLANEOUS

7335 Senior Stationary Engineer

Bruce H. Turmenne		Jan. 11, 1988
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7334 Stationary Engineer

Oliver A. Apodaca		Sep. 01, 1987
Norval E. McGregor	NCS	Jan. 28, 1988

7388 Utility Plumber

Amano G. Johnson		Mar. 15, 1988
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6281 Fire Safety Inspector II

Sam Scott		Jul. 08, 1987
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6280 Fire Safety Inspector I

Katherine G. Shypertt		Aug. 10, 1987
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1924 Materials & Supplies Supv.

Dilnawaz H. Syed	Lim. Ten.	Jan. 01, 1988
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1708 Senior Telephone Operator

Beverly Ucciferro	As Needed	Jan. 22, 1988
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1450 Executive Secretary I

Susan M. Keller		Sep. 15, 1987
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1446 Secretary II

Fay E. Perlas		Oct. 26, 1987
Brenda J. Brown		Jan. 25, 1988
Mary C. O'Riordan	NCS	Apr. 11, 1988
Mary C. O'Riordan		May 09, 1988

1426 Senior Clerk Typist

Barbara L. Rooney		Jan. 19, 1988
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1424 Clerk Typist

Loyola C. Storti	NCS	Jul. 13, 1987
Nancy E. Snyder		Aug. 24, 1987

Administration

1231 Assoc. Affirmative Action Coord.

Victoria P. Macklin

Mar. 14, 1988

1246 Principal Personnel Analyst

Alan K. Wong

NCS

Apr. 07, 1988

1242 Personnel Analyst

Denise G. Cannonier

Jun. 27, 1988

Cindy A. Monroe

Jun. 27, 1988

Brian G. Moritsch

Jun. 27, 1988

DISCIPLINARY ACTION

Disciplinary actions taken in the Fire Department during fiscal 1987-88 totaled 18 suspensions ranging from 2 to 90 days.

COMMUNICATIONS CENTER

The Bureau of Communications serves as the vital link between the citizens of the City of San Francisco and the emergency fire service. Our present Computer Aided Dispatch System is approximately 15 years old. A committee has been formed to modernize our present system to better serve our citizens in the future.

It is the responsibility of the Communications Center to process the calls, dispatch the appropriate personnel and equipment to the incident, and to maintain a record of the incident. During fiscal year 1987-88, we experienced a sixteen percent increase in incidents as follows:

	<u>1986-87</u>	<u>1987-88</u>
Incidents Total	44,945	52,332
By Telephone	36,570	43,282
Box Alarms	8,375	9,050
Greater Alarms		
Second Alarms	56	51
Third Alarms	9	17
Fourth Alarms	2	1
Fifth Alarms	<u>1</u>	<u>2</u>
Total Greater Alarms	68	71

Several accomplishments were achieved during 1987/88:

- 1) Software programs were written for a Box Card and Street Record search thru the Wang Micro-Computer. Database entry is currently underway for use in "Manual Mode".
- 2) Time Roll production was established on the Micro-Computer.
- 3) Information files were published and distributed to Chiefs.

PERSONNEL CENTER

The Personnel Center is responsible for maintaining personnel records, scheduling vacations, reporting and recording personnel status, and balancing daily staffing strength; including hiring overtime personnel and filling vacant classifications.

The total daily staffing strength for fiscal year 1987-88 was 333 firefighters per day as compared to 336 firefighters per day for the previous year. This drop in total daily staffing strength is due to retirements with no new employments since April, 1982.

The average daily strength was reduced by 65 firefighters on duty per day due to absences for vacations, military leaves, disability leaves, sickness, etc. This is a 19.4 percent average absence rate and exceeds the Fire Department's goal of no more than a 15 percent absence rate. In order to achieve this goal, the Department is following an aggressive policy to reduce absences. Deficiencies in staffing are alleviated by hiring overtime personnel.

MANAGEMENT SERVICES

The activities of the Division include, but are not limited to, the following:

1. Developing career and educational programs for uniform personnel;
2. Developing and coordinating Human Relations programs for Department personnel;
3. Coordinating the investigations of discrimination and harassment complaints;
4. Coordinating community service activities;
5. Chairing the Merit Advisory Board
6. Chairing the Vehicle Accident Review Committee and maintaining statistical data.
7. Chairing the Annual Report.

Educational Programs

During the last year, the Department has taken several positive steps towards establishing policies and training which will enhance the relationships within the community and the Department.

The Chief has appointed a Human Resources Manager who will develop and conduct programs on improving human relations within the Department. She will also coordinate the mediation process now being developed within the Division.

The Division is coordinating the development of department-wide training in sexual and racial harassment, human relations, and EEO training.

Vehicle Accidents

The reduction of vehicle accidents involving the Department's rolling stock is the continuing objective of the Vehicle Accident Review Board. The Board reviews all vehicle accidents and conducts hearings to determine the cause. This information enables the Board to recommend changes in driving policies and driver training courses.

Vehicle accidents for fiscal year 1987-1988 decreased from 109 to 103. This statistic is impressive considering the fact that the number of emergency responses increased by nearly 8,000 runs. Department drivers are to be commended for their safe driving habits.

We are not stating that 103 accidents is an acceptable number. Serious injuries occurred to both citizens and firefighters. First-line equipment was down for lengthy periods. Repair costs are an added burden on our already stretched budget. Increased awareness on the part of our drivers is required in order to further reduce accidents and injuries.

Human Resources

The Manager of Human Resources is responsible for the following: coordinate, design, implement and conduct various training programs that revolve around Equal Opportunity Employment and Affirmative Action issues. Sexual harassment, basic employment law, investigative training for Assistant Chiefs and Battalion Chiefs and members of the Review Committee are examples of the training the Department received and has scheduled for this year.

Human Relations conflict resolution and mediation training are being developed and will be presented to all members of the Department.

The manager of Human Resources is available as a technical resource to those individuals who investigate complaints of discrimination for the Department. The office is in the process of developing an investigative manual to assist in conducting a timely, fair, and thorough investigation.

The manager is also available to assist in the recruitment effort that the Department conducts.

FIREFIGHTER RECRUITMENT

This unit was formed and developed specifically for the targeted recruitment effort specified in the Consent Decree. The major activities of the Recruitment Team included the following:

Phase 1

Community Awareness - Going to the prospective communities and enlisting the aid of various community organizations to deliver our recruitment message specifying the need for more women and minorities to consider the SFFD as a career.

Phase 2

The actual Recruitment Effort:

- 1) Develop Public Service Announcements, Posters, Brochures, Ads, etc. This was done by the media consultant.
- 2) Orientation Sessions for various community organizations
- 3) Participate in Career Days, Youth Fairs, community colleges, community events, and grass roots meetings in targeted areas
- 4) Distributing and keeping track of applicants for H-2 Firefighter at the Division of Training.

Phase 3

Retention - This involves mailing, and telephoning all potential candidates for the position of H-2 Firefighter. This effort is essential to help eliminate a drop off of interest from the period of application to the time the written exam is given, and to the time the physical test is administered.

Administration

Vehicle Accidents by Unit Classification

<u>FIRE SUPPRESSION</u>	<u>Fiscal Years</u>				
	<u>83/84</u>	<u>84/85</u>	<u>85/86</u>	<u>86/87</u>	<u>87/88</u>
Deputy & Chief of Department	0	3	0	3	0
Assistant Chiefs	1	0	1	1	3
Battalion Chiefs	3	3	3	4	0
Engine Companies	45	48	52	48	54
Truck Companies	27	16	24	22	29
Hose Tenders	0	1	0	0	0
Salvage Companies	0	0	0	0	0
Rescue Companies	2	3	4	5	3
Service Squad	1	1	2	1	0
Foam Unit	0	0	0	0	0
Fuel Unit	0	0	0	0	0
Utility Unit	0	0	0	0	0
Airport Companies	11	4	3	3	1
	<u>90</u>	<u>79</u>	<u>89</u>	<u>87</u>	<u>90</u>
<u>SUPPORT SERVICES</u>					
Division of Fire Prevention and Investigation	6	7	9	10	6
Personnel Center	1	0	0	0	0
Bureau of Training	0	1	0	0	1
Bureau of Engineering & Water Supply	6	9	8	9	6
Special Details	0	0	0	0	0
Photo Unit	1	0	0	2	0
Bureau of Equipment	4	0	0	1	0
Headquarters Staff	1	2	2	0	0
Other Vehicles	1	1	0	0	0
	<u>20</u>	<u>20</u>	<u>20</u>	<u>22</u>	<u>13</u>
<u>GRAND TOTALS</u>	110	99	109	109	103

Vehicle Accidents by Classification

Emergency and Non-Emergency - Driving Combined

	<u>83/84</u>	<u>84/85</u>	<u>85/86</u>	<u>86/87</u>	<u>87/88</u>
Total Accidents	110	99	109	109	103
Judged Preventable	63	65	70	69	61
Total Alarms	37,107	39,189	43,050	44,498	52,332

Type of Accident

Collision with Fixed Objects--Parked Vehicles Buildings, etc.	45	45	52	51	48
Moving Vehicles	49	44	40	46	38
Another SFFD Vehicle	5	3	5	3	2
Other	11	7	12	9	8
Intersection Collision	21	12	9	9	7

Fire Department Vehicle Collided With

A Moving Vehicle	49	44	40	46	44
A Parked or Stopped Vehicle	32	36	33	39	38
Another Fire Department Vehicle	5	3	5	3	2
Fire Department Building or Object	13	9	19	12	11
Other	<u>11</u>	<u>7</u>	<u>12</u>	<u>9</u>	<u>8</u>
<u>TOTAL</u>	110	99	109	109	103

What Fire Department Vehicle Was Doing

At Time of Accident

	<u>83/84</u>	<u>84/85</u>	<u>85/86</u>	<u>86/87</u>	<u>87/88</u>
Moving Straight Ahead	45	46	43	34	45
Turning Right	14	13	12	14	12
Turning Left	8	2	16	10	7
Backing Into Quarters	7	8	9	12	9
Backing (Other)	15	19	12	14	11
Stopped	21	11	17	25	19
<u>TOTAL</u>	<u>110</u>	<u>99</u>	<u>109</u>	<u>109</u>	<u>103</u>

Damage to Fire Department Vehicle

	<u>83/84</u>	<u>84/85</u>	<u>85/86</u>	<u>86/87</u>	<u>87/88</u>
Sideswipes	55	43	45	37	28
Right Angle	16	12	7	1	15
Rear Ends	17	12	8	21	12
Front Ends	11	11	20	17	15
Other	2	5	6	6	6
No Damage	9	16	23	32	27
<u>TOTAL</u>	<u>110</u>	<u>99</u>	<u>109</u>	<u>109</u>	<u>103</u>

Disability Injuries

There was a total of 718 injuries reported during fiscal year 1986-87. Of these, 563 caused lost work days (LWD), amounting to a total of 11,432 days lost. Compared to fiscal year 1985-1986, these figures represent a 2 per cent decrease in the total number of injuries and a 8 per cent decrease of injuries with lost work days. Lost work days increased by 3 per cent.

The most common injuries continue to be the same as in previous years, firefighters straining or spraining their backs while handling hose or other equipment.

Administration

DISABILITY INJURIES

	<u>1986-87</u>	<u>1987-88</u>	<u>Change</u>
Total Injuries	728	692	- 36
LWD Injuries	563	505	- 58
Lost Work Days	11,432	13,575	+ 2,143
LWD per LWD Injuries	20.31	26.88	+ 6.57

Lost Work Day Injuries

	<u>1986-87</u>		<u>1987-88</u>	
	<u>Injuries</u>	<u>LWD</u>	<u>Injuries</u>	<u>LWD</u>
Engine Companies	287	5182	219	6971
Truck Companies	165	3395	144	4519
Rescue Companies	16	560	16	665
Airport Companies	23	741	9	825
Division 1-2-3	5	65	6	25
All Battalions	19	476	30	236
Fireboat Company	4	142	5	40
Fire Prev. & Investigation	15	464	13	46
Others	29	407	16	248
<u>TOTAL</u>	<u>563</u>	<u>11432</u>	<u>505</u>	<u>13575</u>

Where Injury Occurred

	<u>1986-87</u>		<u>1987-88</u>	
	<u>With LWD</u>	<u>Without LWD</u>	<u>With LWD</u>	<u>Without LWD</u>
1. Fires	266	69	247	84
2. Other Emergencies	110	26	127	27
3. On Department Property	122	52	88	57
4. Drills, Off Department Property	18	5	10	2
5. Inspection Work	19	5	13	4
6. Emergency Vehicular Movement	5	3	2	1
7. Non-Emergency Vehicular Movement	4	1	3	2
8. Routine Duties (Auxiliary Ser.)	2	2	3	2
9. Not Otherwise Classified	8	2	11	6
10. Drill Tower (Training)	9	0	1	2
<u>TOTAL</u>	<u>563</u>	<u>165</u>	<u>505</u>	<u>187</u>

Administration

What Injured Was Doing	1986-87		1987-88	
	With LWDs	Without LWDs	With LWDs	Without LWDs
1. Handling hose - - - - -	119	30	61	29
2. Handling ladders- - - - -	27	0	24	7
3. Handling axes - - - - -	6	3	1	3
4. Handling ceiling hooks- - - - -	7	1	1	1
5. Handling Gleeson Valves - - - - -	7	0	1	1
6. Handling salvage covers - - - - -	2	0	6	0
7. Handling other tools and equipment-	27	8	68	12
8. Handling other objects- - - - -	50	9	19	19
9. Ventilating - - - - -	5	4	11	7
10. Overhauling - - - - -	32	16	34	6
11. Rescue Work - - - - -	45	6	58	13
12. Locating Fire - - - - -	28	5	9	5
13. Directing Operations- - - - -	13	3	7	3
14. Controlling refrigeration break - -	3	0	3	0
15. Servicing or operating apparatus- -	10	1	13	6
16. Inspection work - - - - -	15	3	10	4
17. Involved in vehicular collision - -	9	5	11	4
18. Getting on or off apparatus - - -	43	8	22	8
19. Ascending or descending - - - -	20	2	23	3
20. Sliding down pole - - - - -	3	1	2	1
21. Exercising- - - - -	17	8	16	8
22. Performing duties allied to cooking	14	13	20	14
23. Not otherwise classified- - - - -	63	37	19	25

How Injury Occurred

1. Struck against- - - - -	68	30	109	26
2. Stepped on- - - - -	6	3	11	12
3. Struck by - - - - -	50	41	55	30
4. Caught in, or, or between - - - -	8	3	27	12
5. Tripped, slipped, or fell - - - -	181	31	113	31
6. Lifting or moving - - - - -	141	10	123	26
7. Overexertion - - - - -	47	4	26	12
8. Wetting - - - - -	2	2	2	1
9. Exposure to temperature extremes- -	2	0	0	1
10. Inhalation- - - - -	4	5	0	7
11. Irritation- - - - -	3	2	1	7
12. Absorption- - - - -	2	1	1	2
13. Contact-electrically charged objects	4	1	0	1
14. Contact-heated objects and heated water	4	1	2	0
15. Grasped - - - - -	1	0	4	1
16. Explosions- - - - -	1	0	0	3
17. Backdrafts- - - - -	2	0	1	2
18. Not Otherwise classified- - - - -	39	32	20	9

Injuries Associated with False Alarms - 0

<u>Parts or Parts of Body Injured</u>	1986-87		1987-88	
	With LWDs	Without LWDs	With LWDs	Without LWDs
1. Eye- - - - -	15	18	11	11
2. Head - - - - -	16	16	11	6
3. Neck (except respiratory system) -	33	3	124	12
4. Shoulder - - - - -	49	5	42	9
5. Arm- - - - -	17	10	16	6
6. Elbow- - - - -	16	4	18	5
7. Wrist- - - - -	9	5	11	1
8. Hand - - - - -	42	30	53	32
9. Back - - - - -	192	9	179	26
10. Leg- - - - -	37	4	16	4
11. Knee - - - - -	78	16	60	13
12. Ankle- - - - -	33	5	30	4
13. Foot - - - - -	23	12	14	10
14. Trunk- - - - -	27	5	10	9
15. Respiratory system - - - - -	7	6	7	8
16. Chest pains- - - - -	5	8	14	4
17. Not otherwise classified - - - - -	14	22	11	24

Nature of Injury

1. Burns and Chemical Burns except eyes	15	1	9	6
2. Burns, eyes- - - - -	2	2	2	1
3. Foreign body in eye or eye irritation	14	13	9	16
4. Strains-sprains- - - - -	391	44	248	72
5. Bruises and contusions - - - - -	72	27	33	23
6. Hernias- - - - -	6	2	3	2
7. Lacerations- - - - -	27	27	27	10
8. Punctures- - - - -	2	9	8	3
9. Dislocations - - - - -	4	3	11	2
10. Fractures and suspected fractures-	7	1	13	13
11. Respiratory system and smoke inhalation	5	4	4	5
12. Dermatitis (skin disorder) - - - -	2	3	2	4
13. Cardio-vascular- - - - -	6	5	13	8
14. Not otherwise classified - - - - -	21	28	10	16

MANAGEMENT INFORMATION SYSTEMS

The Electronic Information Processing Steering Committee gave approval for the Fire Department to develop a request for proposal for a new Computer Aided Dispatch (CAD) System. Our CAD Committee hired a professional consulting firm to write the proposal. Included with the proposal will be a request for information (RFI). The final RFI draft has just been completed and will be distributed to vendors in the near future.

The Management Information System (MIS) Bureau moved the Personnel Center files from the Communications Center to the Wang VS System at Headquarters. This move will alleviate some of the burden on the saturated computers at Communications Center.

The major projects are now being researched by the MIS Bureau. The first project will be to program a revenue generating Building Permit System. The second project will be to develop a recruitment program to assist in processing the new applicants for firefighter positions. Both projects are extremely important to the Department, the former project will create several hundred thousand dollars in revenue and the latter project is part of the highly visible Consent Decree.

MERITORIOUS COMMENDATIONS

In 1987-88, the Fire Commission accepted the recommendations of the Merit Advisory Board and the Chief of Department concerning acts of heroism performed by the following Department members during the period January, 1987 through November, 1987:

Class "B" Award

Captain William E. Miles	Firefighter Michael J. Casey
Lieutenant Joseph A. Douglass	Firefighter John P. Pieretti
Lieutenant Kevin J. Gonzalves	Firefighter Lawrence Zammarchi

Class "C" Award

Lieutenant Richard P. Allen	Firefighter William B. Koehler
Lieutenant Robert A. Fennell	Firefighter Michael P. Lawler (Res.)
Lieutenant Robert F. Lamey	Firefighter Roland D. Lee
Acting Lieutenant Stephen A. O'Neill	Firefighter Michael A. Mulesky
Firefighter David A. Dyc (Retired)	Firefighter Brian Murphy
Firefighter John J. Forbes	Firefighter David F. Norris
Firefighter Emmitt N. Jackson	Firefighter Michael G. Reynolds
Firefighter Alexander King	Firefighter Anthony R. Smerdel

Class "D" Award

C/Aide Edward J. O'Brien	Firefighter Gary A. Plimley
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There were seven Unit Citations and 28 Letters of Commendation awarded to uniformed members during this period. Additionally, 13 civilians received Certificates of Merit.

SAN FRANCISCO FIRE FIGHTERS 1987 TOY PROGRAM

For 37 years, the San Francisco Firefighters Toy Program, sponsored by Union Local 798, has been making children happier on Christmas Day. The Program has come a long way since 1950, when firefighters got together to give toys to fifteen needy families. In 1987, off-duty and retired fire firefighters and their families volunteered 4,628 hours to the Toy Program and gave toys to over 9,000 children!

The San Francisco Firefighters rely on donations from organizations and private individuals for the success of its Annual Toy Program. Among the many supporters, R. Dakin & Company continues to be a major contributor to the Toy Program with a donation this year of \$55,000 worth of toys. The 8th Annual Christmas Carol Charity Run, a business-sponsored event, netted an \$18,000 donation to the Toy Program. Private contributions totaled over \$13,000.

From the members of San Francisco Fire Fighters Union Local 798 and the San Francisco Fire Department, our sincere thanks to each and everyone of you for helping make Christmas dreams come true for the needy children of San Francisco.

F.L.A.M.E.

In many ways 1987/88 was F.L.A.M.E.'s finest year.

After years of discussion the F.L.A.M.E. program, San Francisco Recreation and Park, and the San Francisco Police Athletic League combined their resources and offered a quality baseball program to over 2500 participants; thus, enabling us to collectively serve more children than ever before.

Additionally, our annual basketball tournament grew to over 180 teams representing almost 3000 boys.

With the addition of newly available sites, our girls' basketball program was able to provide activity for over 1000 girls.

We have continued to serve the handicapped children of our community by underwriting various outings throughout the school year.

The aforementioned activities are made possible primarily through the generous contributions of active and retired members of the San Francisco Fire Department.

ADVISORY BOARD

The SFFD Advisory Board exists as a clearinghouse for ideas from Department members to evaluate and improve procedures and equipment.

Many suggestions come through the Advisory Board and are directed to the appropriate Department committee to evaluate and implement. Items developed specifically by the Advisory Board in 1987-88 include the following:

- Development of the Information File for Chief Officers
- Development of a departmental report calendar
- List of Department Committees
- Departmental seniority list
- Development of a training newsletter
- Ongoing evaluation of the ICS system
- Ongoing development of format to evaluate and record major incidents
- Street warning markers for mid-block stations

PIONEER MEMORIAL MUSEUM ST. FRANCIS HOOK AND LADDER SOCIETY

The St. Francis Hook & Ladder Society sponsors the San Francisco Fire Department Pioneer Memorial Museum. The Museum is open to the public Thursday through Sunday from 1:00 to 4:00 P.M. and is located adjacent to Station 10. The past year, 6,728 persons visited the Museum.

The Society is empowered to accept, on behalf of the Fire Commission, gifts to the Museum. If such gifts are monetary, the Society uses the money for the preservation, restoration, and maintenance of apparatus, artifacts and memorabilia of the collection.

This year, two pieces of apparatus were transferred to the Museum roster; first, the nation's only jet powered fire engine, the 1960 American-LaFrance Turbo Chief of Engine Co. No. 14, and second, the 1956 Seagrave of Rescue Co. No. 2.

Society members donated 5,145 hours of time to museum projects. In addition, City Guides who staff the Museum through the Society donated 728 hours of time. Firefighters of the Department represented the SFFD at firefighter's 87sters in Fairfield, Virginia City, Nevada, Turlock, Sonoma and Santa Cruz. The Society's class I 1856 Button & Sons hand engine, "The Emperor Norton" won the California Firemen's Muster Association's State Championship.

At the annual meeting of membership it was announced that Mr. John Hurabiell of San Francisco was named the Society's Man of the Year--the person who best assists with preserving San Francisco fire history. At the same time, Chief Emeritus William Murray was presented his own award, the William F. Murray award, for his years of service to the San Francisco Fire Department and its Museum in particular.

STRESS UNIT

The San Francisco Fire Department Stress Unit/EAP completed its first successful year in April of 1988. The formation of the Stress Unit was the result of several years of hard work by the San Francisco Fire Department Stress Unit Committee. This volunteer committee studied firefighters assistance programs throughout the United States. A clear pattern emerged. The most successful programs were based on confidential peer counseling. A successful program with over ten years of experience had been operated by the San Francisco Police Department. This was the model chosen by the Stress Unit Committee for the Fire Department.

The primary function of the San Francisco Fire Department Stress Unit is to provide the firefighters with a confidential, objective, non-judgmental resource to which they may voluntarily come for support, advice and assistance in resolving personal and job-related problems which can seriously impair their job performance and efficiency.

Stress whether incurred by traumatic incident, family troubles, alcohol, and/or drug abuse decreases the firefighter's effectiveness and endangers himself/herself and the community.

The Stress Unit's primary concern is the mental and emotional well-being of the firefighter involved. The Stress Unit provides absolutely confidential help for any member of the Department. It does not function as an administrative disciplinary unit.

The Stress Unit currently consists of two full-time firefighter peer counselors. The Stress Unit is aided by a nine member Stress Unit Committee that acts as a liaison with the Department.

Confidential peer counseling has proven to be a successful approach to the problems our firefighters are experiencing. Many firefighters and their families have been helped by this unit.

FIREFIGHTING AND RESCUE

In the city limits of San Francisco, the fire suppression forces consist of 41 Engine Companies, 18 Truck Companies, 2 Rescue Squads, a Fireboat Company, and other units which are organized for special purposes. The firefighting companies are organized into 10 Battalions which, in turn, are grouped into three Divisions. A fourth suppression division is located at the San Francisco International Airport and is made up of three firefighting companies.

Firefighting and rescue services, fire prevention, and training are the main concerns of the suppression forces. During fiscal 1987-88, suppression units responded to 52,332 incidents, 6,212 of which were fires. In addition, suppression units responded to 21,154 calls for first-aid or resuscitation and 22,913 other alarms, not including 8,265 false alarms.

Fire prevention activities of the suppression forces center around the Commercial Residential Inspection Safety Program (CRISP) and the Home Safety Survey. Last fiscal year, the suppression forces inspected nearly 14,000 occupancies under these two programs. Besides identifying and abating hazards found during inspections, fire suppression companies are able to formulate plans for firefighting in the inspected occupancies should they be required to respond to fire alarms in the properties.

The primary responsibility for in-service training of suppression firefighters is given to the company officers. Under the supervision of Battalion Chiefs and the Bureau of Training, the company officers drill the members of their companies in firefighting and rescue techniques, equipment operation and maintenance, and salvage operations among other fire service related topics.

The Bureau of Training supplements this training and also evaluates the performance of individual fire companies and firefighters. In addition, designated chief officers, in cooperation with the Bureau of Training, provide training in specialized areas, such as Hazardous Material incident response, BART and MUNI Metro underground firefighting and rescue, and high-rise building firefighting.

The following section contains a recapitulation of Fire Department response from 1982-83 to 1987-88 and a comparison of the number of incidents by type for 1986-87 and 1987-88. Fires are further classified by source of ignition, material first ignited, and property class.

Suppression

FIREFIGHTING AND RESCUE SERVICES

Recapitulation of Fire Department Response:

	<u>82-83</u>	<u>83-84</u>	<u>84-85</u>	<u>85-86</u>	<u>86-87</u>	<u>87-88</u>
Total Fire	6,116	6,356	7,132	6,709	6,267	6,212
False Alarms	11,271	11,187	10,541	10,266	9,469	8,265
Emergency Other than Fire	18,684	19,564	21,516	26,075	28,762	37,855
(Resuscitations)	(1,917)	(1,283)	(1,776)	(1,724)	(1,525)	(1,497)
Total Alarms	36,071	37,107	39,189	43,050	44,498	52,332
Major Alarms	70	72	59	69	68	71

Summary of Incidents by Type

	<u>86-87</u>	<u>87-88</u>
<u>Fires</u>		
Unknown Type Fire- - - - -	0	4
Building Fire- - - - -	2,550	2,540
Trees, Brush, Grass- - - - -	499	471
Vehicle Fire- - - - -	1,128	1,234
Refuse Fire- - - - -	1,958	1,778
Outside Structure- - - - -	73	112
Explosion- - - - -	5	2
Outside Spill/Leak - - - - -	-	-
Mobile Home- - - - -	2	1
Other Fire - - - - -	52	70
<u>TOTAL</u>	<u>6,267</u>	<u>6,212</u>

False Alarms

Malicious/Mischief - - - - -	7,435	6,390
Bomb Scare, No. Bomb - - - - -	21	34
System Malfunction - - - - -	1,608	1,112
Unintentional- - - - -	405	729
<u>TOTAL</u>	<u>9,469</u>	<u>8,265</u>

Emergency Other Than Fire

Rescue Calls

Resuscitation-Positive - - - - -	836	588
Resuscitation-Negative - - - - -	689	809
First Aid- - - - -	14,063	20,757
Rescue/Extrication - - - - -	103	107
Potential Jumper - - - - -	22	37
Elevator/Escalator - - - - -	481	419

Suppression

Rescue Calls (Cont)

	86-87	88-89
Trapped in Auto- - - - -	136	169
Cliff/Landslide- - - - -	13	16
Aircraft Incident- - - - -	1	2
Drowning - - - - -	11	14
<u>TOTAL</u>	16,355	22,918

Overpressure

Steam Rupture- - - - -	47	36
Air/Gas Rupture- - - - -	117	129
Water Heater/Boiler- - - - -	70	74
<u>TOTAL</u>	234	239

Hazard Conditions

Washdown Blood - - - - -	19	46
Washdown Gas/Oil, etc. - - - - -	1,377	1,249
Explosive Removed- - - - -	4	5
Excessive Heat - - - - -	229	248
Power Lines Down - - - - -	88	118
Arc/Short Electric - - - - -	428	454
Refrigeration Leak - - - - -	1	3
Smell of Natural Gas - - - - -	12	7
Building Collapse- - - - -	2	3
Aircraft Alert - - - - -	124	89
<u>TOTAL</u>	2,284	2,222

Good Intent Calls

Smoke Scare/Smell- - - - -	749	515
Wrong Location - - - - -	9	27
Control Burn - - - - -	33	17
Alarm Bell Ringing - - - - -	2,223	3,213
Recall/No Service- - - - -	1,771	1,987
<u>TOTAL</u>	4,785	5,759

Service Calls

Cover a Window - - - - -	249	285
Lock-Out/Lock-In - - - - -	700	820
Water Removal- - - - -	785	966
Smoke/Odor Removal - - - - -	288	443
Animal Rescue- - - - -	21	13
Assist Police- - - - -	246	313
Broken Hydrant - - - - -	217	228
Boat Sinking - - - - -	11	7
Loose Structure- - - - -	47	83
Broken Sprinkler - - - - -	84	74
<u>TOTAL</u>	2,648	3,232

Suppression

<u>Hazardous Material Spill</u>	<u>86-87</u>	<u>87-88</u>
Unknown- - - - -	36	22
Explosives - - - - -	-	6
Compressed Gas Leak- - - - -	154	190
Flammable Liquid Spill/Leak- - - - -	1	3
Flammable Solids - - - - -	3	3
Oxidizing/Organic Peroxides- - - - -	6	2
Poisons- - - - -	2	1
Radioactive Material - - - - -	9	9
Corrosions - - - - -	44	40
Other Regulated Material - - - - -	44	40
<u>TOTAL</u>	<u>378</u>	<u>403</u>

<u>Miscellaneous Calls</u>	2,086	3082
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Fires - Source of Heat of Ignition

Heating Systems- - - - -	140	154
Cooking Equipment- - - - -	914	894
Air Conditioning Equipment - - - - -	16	25
Electrical Distribution Equipment- - - - -	416	460
Electrical Appliances- - - - -	125	108
Spécial Equipment- - - - -	327	351
Processing Equipment - - - - -	19	14
Service Equipment- - - - -	35	33
Other Objects- - - - -	4,084	3,930
Undertermined- - - - -	197	246

Fires - Type of Material Ignited

Gas- - - - -	53	48
Flammable Liquid - - - - -	639	648
Volatile Solid - - - - -	319	352
Chemical-Metal-Plastic-Paint - - - - -	184	219
Natural Product- - - - -	1,314	1,233
Fabric-Textile Fur - - - - -	644	660
Material with Oil- - - - -	46	39
Other- - - - -	117	116
Undetermined - - - - -	203	233
Wood-Paper - - - - -	2,754	2,667

Fires - Number and by Property Class

Public Assembly		
Amusement-Fixed - - - - -	12	17
Amusement-Variable- - - - -	3	4
Churches- - - - -	12	6
Libraries, Courts - - - - -	6	6

Suppression

<u>Fires - Number and by Property Class</u>	<u>86-87</u>	<u>87-88</u>
Public Assembly (Cont)		
Eating, Drinking- - - - -	90	98
Terminals, Station- - - - -	9	14
Theaters- - - - -	6	4
Clubs - - - - -	5	1
Educational		
School, Non-Resident- - - - -	25	24
Business Schools- - - - -	10	2
Universities- - - - -	9	3
School, Residential - - - - -	4	1
Unclassified- - - - -	1	1
Institutional		
Care of the Aged- - - - -	11	15
Care of the Young - - - - -	4	3
Sick or Injured - - - - -	61	42
Physical Restraint- - - - -	3	6
Residential		
One & Two Family- - - - -	468	505
Apartments- - - - -	1,353	1,366
Rooming House - - - - -	2	1
Hotel - - - - -	154	169
Motel - - - - -	5	1
Dormitory - - - - -	5	2
Mobile Home - - - - -	1	1
Other - - - - -	1	1
Store & Office		
Food, Beverage- - - - -	32	14
Textile, Clothing - - - - -	7	14
Household, Repair - - - - -	10	6
Specialty - - - - -	9	11
Recreation- - - - -	9	8
Professional- - - - -	23	15
Motor Vehicle - - - - -	8	6
General Item- - - - -	9	6
Offices - - - - -	107	88
Basic Industry		
Communications- - - - -	4	2
Utilities - - - - -	35	48
Agriculture - - - - -	2	1
Forestry- - - - -	4	2
Mineral Products- - - - -	1	2
Laboratories- - - - -	5	2

Suppression

	<u>86-87</u>	<u>87-88</u>
Manufacturing		
Food- - - - -	7	7
Beverage, Tobacco - - - - -	1	1
Textiles- - - - -	0	2
Wearing Apparel - - - - -	4	3
Wood, Paper - - - - -	16	24
Chemical- - - - -	2	1
Metal - - - - -	9	5
Vehicle - - - - -	2	4
Other - - - - -	8	10
Unclassified- - - - -	3	4
Storage		
Textile - - - - -	1	-
Food, Tobacco - - - - -	4	2
Petroleum, Alcohol- - - - -	1	-
Wood, Paper - - - - -	1	3
Chemical, Plastic - - - - -	2	9
Metal - - - - -	6	9
Vehicle - - - - -	19	18
General - - - - -	49	65
Agricultur- - - - -	1	2
Unclassified- - - - -	-	-
Special Properties		
Construction- - - - -	19	38
Special Structures- - - - -	7	10
Outdoor - - - - -	510	483
Road- - - - -	1,933	1,750
Equipment Areas - - - - -	1	4
Railroad- - - - -	-	-
Aircraft Areas- - - - -	1	-
Water Areas - - - - -	2	1
Unclassified- - - - -	0	-
Mobile Property		
Road-Passenger- - - - -	1,023	1,135
Road-Freight- - - - -	97	104
Rail Transport- - - - -	1	2
Water Transport - - - - -	4	4
Air Transport - - - - -	2	1
Heavy Equipment - - - - -	8	5
Special Vehicles- - - - -	2	2
Unclassified- - - - -	1	1

DIVISION OF AIRPORTS

Division #4, San Francisco Fire Department, is charged with providing Fire Protection, Training, and Fire Prevention for San Francisco International Airport.

The Division #4 staff includes a Division Chief, Operations Officer and a Secretary.

Fire Prevention activities are provided by a Deputy Fire Marshal and Fire Safety Inspector. Duties include regulation of Hazardous Materials, Code Enforcement and training in Fire Extinguisher Operation and Earthquake Preparedness.

Fire Protection, Training and Suppression are provided by three (3) Airport Fire companies located at two (2) fire stations at the Airport. Additionally, these companies make regular building inspections of terminals, cargo areas and other structures.

AIRPORT COMPANY #1 - Located in Fire Station #1, is an Aircraft Rescue & Firefighting (ARFF) company, composed of two (2) ARFF units and a Rescue Boat.

AIRPORT COMPANY #2 - Located in Fire Station #2, is an Aircraft Rescue & Firefighting (ARFF) company, composed of two (2) ARFF units.

AIRPORT COMPANY #3 - Located in Fire Station #1, is a Structural company providing First Aid and structural protection. This company is composed of three (3) units: Engine, Truck and First Aid vehicle.

In addition to regular drills scheduled by the SFFD, special drills are regularly conducted. Each month, three (3) surprise exercises are enacted (RED CAPS). These exercises involve not only the Airport Fire companies, but also Airport Police, Medical, Communications and Operations.

San Francisco International Airport continues to receive the Aviation Safety Institute Award as the Safest Airport, in great part because of the Crash/Fire preparedness we provide.

AIRPORT RESPONSE STATISTICS - 1987-88

Aircraft Incidents	107
Brigades (Panel Alarms/Good Intent)	453
Building Fires	9
Code 10 (Bomb Threats)	26
Elevators/Escalators	164
Fuel Spills	159
Grass/Trash Fires	10
Medical Alarms	1153
Vehicle Incidents	80
Water Rescues	<u>7</u>
TOTAL	2168

DIVISION OF TRAINING

The responsibilities of the Division of training include the supervision of both Recruit and In-Service Training. The Fire Auxiliary Reserve is also under the supervision of the Director of Training.

During fiscal year 1987-88, the Division of Training ensured that all field personnel achieved acceptable performance ratings in firefighting, rescue and salvage techniques by conducting regularly scheduled company and battalion drills. Under the pilot program started in the previous fiscal year, emphasis also continued to be placed on the role of the chief officers in supervising company drills and evaluating individual and company performance in the field.

Special training courses and workshops were also conducted which included Aids Awareness, Incident Command, Conflict and Grievance Mediation, P.G. & E. (electric & natural gas) Safety, Hazardous Materials, Stress Unit Seminars and Battalion Chief's Workshops.

The Division of Training has maintained an ongoing schedule of training which ensures that 100% of company officers and firefighters will continue to meet State regulations for C.P.R. Training. More than 200 officers and firefighters (including the 2 new probationary classes) also completed a 28 hour First Responder training course in first aid. Additionally, the San Francisco Fire Department graduated its first class of Emergency Medical Technicians (EMT's), consisting of 30 officers and firefighters. The firefighters received an additional 117 hours of intensive training from Mr. Paul Buffone.

The training staff also continued to improve its own training skills by attending classes and seminars in a variety of subjects designed to "train the trainers." These activities were conducted under the auspices of the State Fire Marshal's office, the Community College, the National Fire Academy and the Training Officers Section of the Fire Chief's Association.

The Video Communications Unit continued to expand its vital role in training and in documentation of Department activities. It has also assumed a large measure of responsibility for developing and implementing computerized training records and programs.

Suppression

Upon authorization by the Federal Court for the provisional hiring of new firefighters, the 73rd and 74th recruit classes of the San Francisco Fire Department, were sworn in. These classes received 8 weeks of intensive training; and of the 48 provisional firefighters originally hired, 46 graduated. These were the first new firefighters to be hired by the San Francisco Fire Department since 1982 and they are now completing their training in field training assignments under the continuing supervision of the Division of Training. The company officers to whom they were assigned received special training for their new roles.

In addition to being the first new firefighters hired since 1982, these two classes were also distinguished by another notable first in that they included the first female firefighters to enter the San Francisco Fire Department.

To assist in the preparation for this transition, the Division of Training formed a committee which included members of the training staff and Captains of fire suppression companies. The committee not only visited other cities having female firefighters, but also participated in seminars with their people to gain insight into potential problems.

Having thus benefited from the experience gained by these other departments in integrating female firefighters into their ranks, departmental guidelines were prepared and approved and, where necessary, station facilities were appropriately modified.

FIRE AUXILIARY RESERVE

Under the supervision of the Chief of the Division of Training, the Fire Reserve is organized to augment the San Francisco Fire Department in times of disaster. The Fire Reserve is composed of a group of dedicated citizens who volunteer to perform this vital service to the City on their own time without remuneration. In cooperation with the Division of Training, they are thoroughly trained in weekly training drills held either at the Division of Training, at their own Station, "Old Engine 21", or elsewhere in the field.

The fire Reservists also continue to increase their on-the-job training by assisting at greater alarm fires and by participating in an expanded ride-along program in fire houses throughout the City.

During this past fiscal year, William S. Keene, under whose guidance as Commander, the Fire Auxiliary Reserve has grown in both size and stature, took his well earned retirement from this post. His position has been assumed by Commander Thomas R. Fox who was sworn in before the Fire Commission as Commander of the Reserve on March 9, 1988.

During fiscal year 1987-88, the membership of the San Francisco Fire Department Reserve numbered an average of 48 members. The Fire Reserve participated in 51 training exercises for a total of 2380 firefighter hours and responded to 14 greater alarms and assisted at these fires for a total of 300 man hours.

HAZARDOUS MATERIAL

With the increased usage of hazardous materials in the environment, an increased risk of exposure to the citizens of San Francisco has developed. To meet this potential hazard, the San Francisco Fire Department placed into service a Hazardous Materials Unit on October 1, 1982.

The Hazardous Materials Response Unit (Haz. Mat. 1) is quartered at Fire Station 36. The Hazardous Materials Response Team is made up of the members of Engine Company 36, backed up by Rescue Squad 1 and Rescue Squad 2, and is coordinated by the chief officers of Battalion 2. Further support is given to the unit by inspectors from the hazardous materials permit section of the Fire Prevention Bureau, industrial hygienists and environmental health inspectors from the Department of Public Health, and the Coast Guard.

During the year, the team has been called out on incidents involving reacting chemicals, large fuel spills in buildings, and minor spills of powders in public areas. It is not necessarily the quantity released that determines the severity of a hazardous materials incident, but the hazards presented and the system impacted that are of concern.

The unit has been outfitted with identification equipment, hazard assessment equipment, personnel protective equipment, and control and containment equipment. Training for personnel this year has included in-house training and the intensive State certification hazardous materials classes for members of Engine 36, chief officers and chief's aides of Battalion 2, Rescue Squad One, and Rescue Squad Two. This intensive training is scheduled through the month of November, 1988.

A disbursement of \$80,000 from the State of California has been allocated to the City and County of San Francisco for a vehicle and equipment for hazardous materials emergency response. Specifications for a larger hazardous materials response vehicle are under development with the vehicle expected to arrive around the end of the year. New and additional equipment requirements are also being considered based on past and anticipated incidents.

New one-hour Scott Air Packs with buddy-breathing capabilities were issued to the Hazardous Materials Unit, and some new equipment has been received through the

Department of Public Health. This equipment includes a Miran 1B monitoring device and an asbestos vacuum. Due to the space limitations on our present vehicle, this equipment is in storage at Station 36.

No members attended the National Fire Academy classes during this year due to the scheduled intensive training.

HIGH-RISE TRAINING PROGRAM

The High Rise Training Program of the San Francisco Fire Department is a continuous program. Its aim is to keep our department members qualified to handle the many tasks which are required when they confront a fire in a high rise building.

Each weekend some of our members attend a high rise orientation in one of our high rise buildings. It takes them through the different operations they might be required to perform at a high rise fire. Our goal is to have every member of the department attend one of these orientations each year.

Firefighting units in the high rise area conduct ongoing inspections and familiarization tours of the high rise buildings in their areas. In addition, Battalion Chiefs in the high rise areas conduct a thorough inspection of at least one high rise building in their district each month.

BAY AREA RAPID TRANSIT AND MUNI METRO TRAINING

Training objectives for BART/MUNI METRO is to continue to conduct full scale drills in all phases of the BART/MUNI METRO systems. In the past year drills have been conducted jointly with SFFD and Oakland Fire Department in the trans-bay tube beneath San Francisco Bay. At the same time SFFD drills were conducted in the MUNI METRO system at various locations as well as BART aerial trackway exercises. Orientation classes were held at the Bureau of Training for newly appointed officers by members of BART/MUNI committee and orientation of the new BART C-car was conducted for members of the Department by BART personnel at their Hayward Training facility.

This year in attempting to work with BART and CPUC to upgrade firefighting systems within the BART system. The BART committee has successfully negotiated the exchange of Draeger breathing apparatus for a comparable number of Scott 1-hour breathing apparatus as provided by the BART district.

It is anticipated that in the upcoming year, local as well as intra-agency drills will continue with the objective of training/orienting Department members and evaluating firefighting procedures to provide a safe-as-possible transit systems not only for patrons, but also for Fire Department members while operating at emergencies.

HEALTH AND PHYSICAL FITNESS PROGRAM

In fiscal 1987-88, the San Francisco Fire Department embarked on a new and innovative fitness program. All testing procedures now take place at Ralph K. Davies medical Center at their "Health Check" facility. "Health Check" is a 2,500 square foot lab that specializes in stress testing.

The reason for the stress testing program is to foster a healthier, more active lifestyle for firefighters by identifying specific problems that can be remedied before the onset of ill health. The program at R. K. Davies also identifies problems that demand immediate attention, in which case the firefighter receives immediate care at Davies or is sent to the Franciscan Treatment Room for further medical treatment.

The complete test takes place in one visit. The firefighter receives results immediately except for the blood analysis which is received approximately two weeks later.

Suppression

The following statistics were compiled by "Health Check" from over 400 firefighters tested in fiscal 1987-88:

	<u>Number of Firefighters</u>
Total cholesterol level above 200 mg/dl	206
Body fat level above 20%	157
Triglyceride level above 220	41
Diastolic B/P over 90	38
Firefighters having one coronary risk factor	106
Firefighters having two or more coronary risk factors	111

The current stress test components at "Health Check" are as follows:

Blood analysis: 25 panel blood analysis which includes total cholesterol, high density lipoprotein cholesterol, low density lipoprotein cholesterol and triglycerides.

Urine analysis: (diabetes, etc.).

Respiratory testing:

1. forced vital capacity
2. forced expiratory volume

Resting EKG.

Stress EKG: (on a treadmill) for firefighters 35 years of age and older).

Body composition: balance of body fat versus muscle mass. The percentage of body fat is calculated by two methods:

1. hydrostatic weighting
2. skinfold measurements

NEW PROGRAMS AVAILABLE

Diet Analysis Program: For the first time a diet analysis program was offered in fiscal 1987-88. Sixty-three firefighters took part in the program. A three-day diary was kept by each participant. Daily total caloric intake was analyzed as well as daily total fat calories and what percentage of the total calories was derived from fat. Average percentage of fat calories among the participants was 47%. Dietary modifications were recommended in compliance with the standards set by the American Heart Association. (American Heart Association recommends no more than 30% of the total daily caloric intake be derived from fat.) The diet analysis program is continuing into fiscal 88-89. All firefighters are encouraged to take advantage.

Structured Running and Walking Program.

Individual Weight Training Programs.

Task Analysis Testing: Testing will begin in fiscal 88-89 when the new P.A.T. events have been established and put in place.

A direct relationship between the Health and Physical Fitness Program and cost effectiveness is extremely difficult to determine. If it is assumed that the programs result in a 50 to 75% reduction in the days lost and disability retirements granted, the savings to the San Francisco Fire Department would be between \$3.5 and \$5.2 million for seven years.

BUREAU OF FIRE PREVENTION

The Bureau of Fire Prevention, during the fiscal year 1987-1988, established an office at Pumping Station 1 for District Inspectors assigned to the Downtown area. The Inspectors are supervised by a Lieutenant, Bureau of Fire Prevention. The District Inspectors assigned to Division-2 have been reassigned to headquarters. This arrangement allows direct supervision of Inspectors, facilitates the flow of paper work, and reduces the need for materials.

The FITS computer is being programed to monitor new activities and revenues collected by the Bureau of Fire Prevention. The Bureau's activities were audited by three different agencies all of whom were impressed by our capabilities to track specific activities.

Annual inspection programs such as the high rise, pre-school, institutions and schools continue to meet all the objectives of the Bureau of Fire Prevention.

The Department's participation in National Fire Prevention Week included its Annual Fire Prevention Day at the Zoo.

Inspections - Bureau of Fire Prevention

Annual (excluding high rise)	2,312
Annual high rise	8,178
BBI Referral Inspections	26,450
Complaint Inspections.	9,708
Hazardous Material Permit.	1,065
State Fire Marshal Referral.	2,362

The total number of inspections conducted by members of the Bureau of Fire Prevention during the last fiscal year was 65,548.

CODE ENFORCEMENT

Revenue Producing Legislation Presented to the Board of Supervisors

The Bureau of Fire Prevention developed three revenue generating programs which were presented to the Board of Supervisors. If such legislation is approved, it will allow the Bureau to establish a reinspection fee of sixty (60) dollars per hour for inspections required due to violations of the Fire Code, collect an inspection fee of sixty (60) dollars per hour for those inspections generated by applications for building permits, and allow certain Fire Department personnel the ability to enforce the Fire Code by issuing citations with specific penalties.

New Codes Being Prepared

The San Francisco Fire Department will adopt the 1988 Uniform Fire Code with amendments which will be known as the San Francisco Fire Code. The Bureau of Fire Prevention is working with the Bureau of Building Inspection in developing the 1988 San Francisco Building Code. It is the intent that all Agencies both State and Local adopt the 1988 edition of the Uniform Codes within the first 180 days of 1989.

Plan Checking

The Bureau personnel assigned to Plan Checking maintain contact with design professionals, check plans for compliance with all regulations enforced by the Chief of Division and approve plans for new construction and alterations.

The Bureau's plan checking activities are generating sufficient funds to defray the cost of this activity. The Central Permit Section has collected approximately thirty six thousand dollars per month since October 1987. Inspections generated by plan checking activities will be funded by a new inspection fee which is scheduled to go into effect this September.

High Rise Inspection Program

The State of California mandates that all regulated high rise building be inspected annually.

The Bureau of Fire Prevention's high rise inspection team inspected 429 high rise buildings during 1987-88 fiscal

year. These inspections generated \$316,176.08 which defrayed 92% of the cost of these inspections. The Board of Supervisors has approved legislation that will allow the

Permit Section

The San Francisco Fire Department Permit Section is responsible for issuing permits and enforcing code requirements for activities regulated by Article IV, Municipal Fire Code.

The Permit Section, over the last six months, has processed 355 new permit applications and collected \$50,317.00 in permit filing fees. During the same period, the permit section conducted 508 new and annual permit inspections, and inspected and approved 154 Hazardous Material Storage permit referrals from the Department of Public Health.

FIRE SUPPRESSION INSPECTION PROGRAMS

The Commercial Residential Inspection Safety Program, CRISP, is an inspection program performed by the local fire suppression personnel and is targeted primarily at businesses and large residential buildings. Large industrial buildings exceeding 100,000 square feet, properties classified as high-rise buildings, and one and two family dwellings, are excluded from this program. Family dwellings, however, are inspected by Fire Suppression personnel under the Home Safety Survey Program as discussed later in this section.

CRISP is designed not only to identify and classify buildings for computer data storage and retrieval, but also to enable first due companies to identify hazards and prepare pre-fire plans. When Fire Suppression Companies identify hazardous conditions, they issue a "Notice of Violation" and set a time limit for abatement of the hazard.

During the Fiscal Year 1985-86, the coordination of CRISP was turned over to the Bureau of Fire Prevention. The Inspector assigned was responsible for record keeping and screening all forms for compliance with any and all applicable codes, ordinances and regulations.

Prevention

In addition to this, the Inspector assigned serves as liaison between the Fire Suppression and Fire Prevention personnel

In Fiscal Year 1987-88 Fire Suppression Companies inspected 10,351 building under the program, found 440 violations, and issued "Notices of Violation" to the responsible parties. Suppression personnel obtained 238 corrections which reflect an abatement rate of 54%, lower than the program's goal of 75 percent.

A year by year recapitulation of CRISP for the last 5 years is as follows:

<u>Year</u>	<u>Inspections</u>	<u>Violations</u>	<u>Corrections</u>	<u>Percent</u>
1983-84	11,247	641	450	70.2%
1984-85	11,040	841	637	75.7%
1985-86	10,659	470	349	74.3%
1986-87	14,804	507	318	63.0%
1987-88	10,351	440	238	54.0%

The Home Safety Survey Program is carried out by the Fire Suppression Companies to identify hazards in one and two family dwellings. The effectiveness of the program relies upon the cooperation of the home dwellers, as it is with their consent and participation that inspections are made. When their consent is granted, Fire Suppression personnel inspect the homes for hazards such as stored rubbish, flammable liquids, eletrical wiring and heating hazards. With the cooperation of the home dwellers, any hazards identified are abated.

During the past fiscal year, Fire Suppression personnel approached 8,634 homes and were granted permission to inspect 2,536 of these homes.

PUBLIC EDUCATION

The Public Education efforts of the Bureau of Fire Prevention were centered upon the senior citizen population of San Francisco during this fiscal year.

A study of past fire fatalities showed that seniors represented 80% of the totals. This tragic figure gave direction to the development and implementation of a fire safety program for this large population. Letters were sent to senior citizen organizations throughout the City, which asked for time before their organization to teach fire and earthquake safety. The response was gratifying, and programs were presented at community meetings, Bingo games, luncheon groups, senior centers, Project SAFE meetings and other locations. The success of these programs can be determined from a review of the 1987-1988 Fire Death statistics. The rate of senior (age 50 plus) has dropped from 80% to 32%.

The Department's Annual Fire Prevention Day at the Zoo, organized by Fire Safety Inspector-I Lisa Kanter, and with the cooperation of the Officers and Fire Fighters of Station 18 and Station 15 again proved to be a fun time as well as an opportunity to educate over 8000 men, women, and children who visited the Zoo that day. The Brisbane Fire Department and the California Department of Forestry once again joined with this Department in observing Fire Prevention Day. Fire Safety Inspector I Diana Shortall has developed her own Fire Safety presentation for pre-school children and devotes a portion of her inspection time to teach children ages 2 to 6 basic fire safety behaviors.

Inspector Sam Scott, as School Inspection Specialist, also utilizes his time to provide fire safety training in both private and public schools. Through the Tobacco Institute, a 30 second public service message in Cantonese has been produced and distributed by the Bureau of Fire Prevention. This message on the installation of smoke detectors is the only one of its type in the United States.

FIRE MARSHAL--SAN FRANCISCO INTERNATIONAL AIRPORT

The 102 million dollar renovation project of the South Terminal Complex is completed and, at this time, new tenant improvements are in progress.

It is the responsibility of the Inspector assigned to the airport to review all plans for new construction or alterations to existing structures and insure that all Federal, and Municipal Codes relating to fire protection are adhered to.

Highlighted below are a few of the activities performed by the Fire Marshal:

Total Number of Plan Checks	120
Pre Construction Meetings	49
Fuel Tank Trucks Inspected	595
Underground Fuel Tanks Inspected	5
Inspections	520
Reinspections	302
Total Number of Building Inspections	689
Sprinkler System Tested	52
Alarm Systems Tested	623

The Airport Inspector annually inspects all buildings at the Airport and enforces all codes and regulations as adopted by the Airport regarding life safety, fire suppression, and fire prevention. The Inspector and his staff conduct regularly scheduled classes in the use of various types of fire extinguishers for the home and work site. They also attend monthly meetings on safety and emergency response plans.

FIRE MARSHAL--SAN FRANCISCO PORT COMMISSION

The steady decline of fire losses on Port property symbolizes the cooperation that exists among this office, with Port personnel, tenants, Navy, Coast Guard, as well as the Fireboat Phoenix, whose ongoing pier inspections make possible early recognition and abatement of fire hazards.

Completed Major Port Projects:

1. Pier 70 (Old Todd Shipyard) activated by Southwest Marine. This facility has been transformed from a dormant shipyard to a revitalized one.
2. New fire equipment has been installed, others have been serviced, and three (3) new drafting locations have been designated. These improvements will greatly assist our fire fighting forces in the event of an emergency.
3. Pier 24: Due to the position of the pier (under the Bay Bridge), the recent upgrading of the sprinkler system will greatly diminish the potential for fire.

Other Significant Improvements:

1. Area between Piers 41 and 45: To improve accessibility of responding emergency services to this high density area, fire lanes and pedestrian lanes have been increased.
2. Fuel Storage Tanks: Closer review of permits governing the installation and maintenance of same.
3. Refueling Operations: Expanding the supervision of these operations, and coordinating the times and locations of these functions.

Future Major Port Projects 1988-89:

1. Hyde Street Pier: Demolition of decaying wooden pier, and construction of a new concrete pier housing the Harbor Master's office, parking, and food concessions. The new pier is to have dry and wet standpipe outlets, fire alarm call boxes, and smoke detectors for the offices. The new floating marine diesel fuel depot to be built adjacent to the pier, will have automatic fire suppressant equipment.
2. Pier 36: To assist the Redevelopment Agency in relocating Service Engineering from their present location to Pier 36, the following is contemplated:

Redesign existing pier, allowing for occupancy separations and a sprinkler system.
3. Piers 33 and 35: Expand passenger terminal service, with expanded fire protection systems.
4. Goals: To transform the present Port Fire Marshal's operations to an appropriate computer installation to assist in reducing clerical time and increase time for planning, consulting and policy making.

Prevention

A few of the major details of the Port Fire Marshal's operations and activities in the following categories:

	<u>1986-87</u>	<u>1987-88</u>
Pier surveys, seawall lots and building inspection:	627	321
Reinspections and resurveys:	97	292
Total Number of inspections and surveys:	724	613
Total number of plans checked	320	491
Lectures and first aid classes	39	23
Welding and permit inspections	238	145
Plan Review Meetings		
(New classification)	N/A	329
Property Management Conferences	104	239

Investigation

BUREAU OF FIRE INVESTIGATION-ARSON TASK FORCE

The goal of the Bureau of Fire Investigation is to conduct comprehensive investigations of fires, including all of the factors influencing or contributing to the fire ignition sequence and the communication of fire. Activities include accidental fire investigation to determine the origin and cause, criminal investigation when arson is determined and the reduction of arson incidents.

The determination of origin and cause provides the foundation for the development of the factual and legal theory underlying the incident. An analysis of the origin, cause, and fire spread often leads to a complete formulation of liability and causation which will ultimately be presented at trial.

The extensive and detailed information obtained from these comprehensive investigations also makes it possible to develop the most effective regulatory codes, standards, inspection and suppression procedures, and similar actions designed to prevent or control fire.

Bureau of Fire Investigation personnel participated in numerous pre-trial conferences and trials in criminal court in order to assist in the prosecution of subjects apprehended for violation of fire laws.

The major cases that the Bureau was involved in during 1987/88 are listed below:

1. Bayview Industrial Park fire continues to be litigated with over 27 separate lawsuits.
2. Moore vs. Lera Properties in which Battalion Chief William Moore settled favorably out of court.
3. Explosion and fire at the Canton Tea House.
4. 5th Alarm fire at Villa Florence Hotel.
5. PCB incident at #1 Market Plaza.
6. Cathedral Hill Hotel fire (CIRCA 1983) which is progressing toward a trial date.

The backlog of these major cases which require the production of records and evidence in addition to testimony, poses a serious burden on the Bureau.

Investigation

Below is a comparison of the relevant Bureau of Fire Investigation/Arson Task Force statistics for Fiscal Years 1986/87 and 1987/88:

	<u>1986-87</u>	<u>1987-88</u>	<u>Change</u>
Incidents Investigated	599	510	-17%
Accidental Fires	149	106	-40%
Incendiary Fires	409	404	-01%
Felony Convictions	14	17	+21%
Misdemeanor Convictions	18	20	+11%

Investigation

ARSON EARLY WARNING SYSTEM

The goal of the Arson Early Warning System is to reduce arson for profit fires and negligent fires by identifying potential high risk buildings through the examination of public records in conjunction with on-site inspections. Relevant information is provided to insurers so that steps may be taken to minimize risk by cancelling the policy, increasing restrictions, or not insuring at all. Intervention is also accomplished by direct contact with the owner.

The Arson Early Warning System obtains referrals from Chief Officers, field units, concerned citizens, insurance representatives, and the Bureau of Fire Prevention. The investigator assigned to the Arson Early Warning System is also responsible for obtaining background information for cases under investigation by the Arson Task Force.

During Fiscal Year 1986-87, a pilot program was initiated, through the California Arson Prevention Committee, whereby insurance companies experiencing fire losses within the City and County of San Francisco would voluntarily forward a copy of a routine insurance form, entitled "Property Loss Notice", to the Fire Department. This procedure assures prompt identification of the Company insuring the loss as well as providing valuable information on the policy, loss amounts, adjuster's name, and other miscellaneous information which may be used during the Fire Department's investigation of the incident. The information obtained may also indicate the need for the Bureau of Fire Investigation to open an investigation into incidents to which it was not summoned.

An automated program for data entry and the sorting of this information has been developed on microcomputers. The ultimate goal is to analyze data on all insured fire losses so that more accurate records may be maintained, perpetrators of multiple claims identified, and the potential for insurance fraud reduced.

The pilot program has shown that consideration should be given to exploring the possibility of proposing legislation requiring insurance companies to report all insured fire losses to the Fire Department. This appears to be the most expeditious way of obtaining participation in this program by all insurance companies writing fire insurance in San Francisco.

Investigation

FIRE FATALITIES

There were thirteen (13) fire fatalities during Fiscal Year 1987-88. Two of the fatalities were homicides and another was determined to be a suicide in a portable toilet, located on the street in front of a construction site. Three people perished as the result of fires caused by candles igniting combustibles. Eight of the fire fatalities occurred in residential occupancies.

Fire fatalities are compared for the past five years in the following chart:

	<u>1983-84</u>	<u>1984-85</u>	<u>1985-86</u>	<u>1986-87</u>	<u>1987-88</u>
<u>Total Fatalities</u>	23	10	22	14	13

Occupancy

Apartments	9	6	6	1	6
Dwellings	8	4	7	11	2
Hotels	5	0	0	1	0
Other*	1	0	9 *	1	5

Age Group

Under 15	3	1	1	0	2
15 thru 64	13	4	15	5	7
Over 64	7	5	6	9	4

Cause of Fire

Smoking Mat.	5	6	7	6	2
Heating-Cooking	5	3	2	0	1
Incendiary	1	0	1	0	3
Electrical	9	1	3	2	3
Other**	3	0	9**	6	

Candle					3
Flammable Vapors					1

*Other:	Trailer	1
	Portable Toilet	1
	Garage	1
	Warehouse	1
	Open Park	1

**Industrial
Explosion

DIVISION OF SUPPORT SERVICES

The Division of Support Services administers the program that provides physical support for the other programs of the Fire Department. This responsibility falls mainly into four distinct areas: water supply, equipment, communications, and physical plant. To accomplish the goals of the Division, the Chief of the Division of Support Services administers the activities of three bureaus: the Bureau of Engineering and Water Supply, the Bureau of Equipment, and the Bureau of Communications. In addition to the above areas of responsibility, the Chief of the Division also administers the Fire Department's Fireboat Program, administers special projects, supervises the handling of materials and supplies, and administers maintenance and capital improvement projects. Formerly, the Chief of the Division also acted as the Fire Department's liaison with the Office of Emergency Services; this function has been transferred to the Deputy Chief of Operations. Many of the duties of the Division are accomplished through working closely with other City departments and agencies; therefore, the Chief of the Division serves on inter-departmental committees as representative of the Fire Department.

During fiscal 1987-88, the Division surveyed 55 Fire Department facilities in order to establish capital improvement needs and assess the facilities maintenance program. In addition, the Division processed the building repair requests from the several fire stations and other facilities of the Department and forwarded them to the Bureau of Building Repair, Department of Public Works, which has the responsibility for the maintenance and repair of Fire Department buildings. In this area, the Division of Support Services initiated a revised tracking system in order to monitor the progress of the program. It is the intention of the Division to automate this system when resources become available to do so.

Salvage Operations

Fire Department salvage operations assist in the protection of buildings and their contents, both personal and mercantile, from damage caused by fire, smoke, and water. Personnel of the Division of Support Services work with fire suppression units to account for salvage covers used and for sprinkler heads replaced by firefighting companies and to restore sprinkler systems to service after a fire.

Salvage operations statistics for fiscal years 1986-87 and 1987-88 are as follows:

	1986-87	1987-88
1. Roof Cover used (No Charge)	30	51 (12)
2. Salvage Covers used (No Charge)	45	81 (31)
3. Rental Fees billed	\$1,002	\$1,493
4. Sprinkler Heads replaced	216	98

Pier 22-1/2 Reconstruction

During the past fiscal year, the shed on the pier was completed and the substructure of the fire station was repaired by the Port of San Francisco. However, the reconstruction of the fire station itself has been delayed due to inadequate funds available at present time.

Capital Improvement Programs

The project to install Emergency Power Generator Sets, which will provide emergency operating power for the fire stations and selected other facilities of the Fire Department, is continuing. The bid process has been completed and the contract awarded. Installation will begin in the Fall of 1988, and 16 Generator Sets will be installed in fire stations which do not have emergency power and which quarter two or more fire companies or a chief officer. When completed, this project will provide emergency operating power to all active fire stations, facilities of the High Pressure System, and selected other facilities of the Department that are necessary for emergency operations.

In order to comply with state mandates to protect the underground water from pollution and because many of the Fire Department's underground storage tanks for fuel were old or in poor condition, the Bureau of Engineering, Department of Public Works, removed approximately half of the Department's underground storage tanks. A project to replace the underground tanks is in place; however, this

project was not funded for fiscal 1987-88 nor for fiscal 1988-89. The inadequate on-hand fuel supply has impacted the daily operations of the Fire Department by causing unnecessary out-of-service time (time during which a unit is unavailable to respond) for the units to re-fuel.

The project to replace the overhead apparatus doors was not funded in fiscal 1987-88 nor for fiscal 1988-89. This program, when resumed, will provide the fire stations with modern, light-weight doors that will improve security for and accessibility to the fire stations; will allow the companies to easily remove the door if jammed by an earthquake; and will very significantly reduce costs associated with maintenance of the doors.

Looking toward the future, the personnel of the Division of Support Services are faced with a number of challenges. The 1986 Fire Protection Improvement Bond Program is increasingly drawing upon the resources of the Division in the areas of Engineering and Water Supply, and Equipment.

Several fire stations are in need of remodeling and many more are suffering from years of deferred maintenance. Preparing the Department for its first women firefighters has impacted the Department's maintenance and replacement programs which were already curtailed by budgetary constraints of the past several years; however, it is projected that a Capital Improvement Project will be approved that will allow the Department to update its stations to accommodate its new firefighters.

The Bureau of Equipment is in desperate need of an adequate facility from which to properly perform its duties. A modern, adequate facility would enable the Bureau of Equipment to consolidate its functions, promote efficiency, and reduce overhead costs associated with its operations.

In order for the Fire Department to perform properly and be responsive to the needs and desires of the community, the infrastructure of the Department must be improved after years of neglect. The Bureau of Equipment facility has not been improved since the Bureau's inception. There is a

demonstrated, immediate need for more classroom space and modern technical aids to support training in the areas of the Department's new as well as traditional responsibilities. Headquarters' functions have expanded greatly in the areas of prevention, personnel, recruitment, support, and administration and has outgrown the space available.

The Fire Department's fleet of firefighting apparatus and support vehicles is old and unreliable because replacement programs have fallen behind schedule do to lack of funding. This situation not only severely limits the dependability of the Department's apparatus, but also greatly increases maintenance and repair costs. A revised Equipment Replacement Schedule has been developed; (see Bureau of Equipment Report following); however, the new schedule can be only as effective as funds are made available to implement the plan.

BOND PROGRAM - EARTHQUAKE PREPAREDNESS

1. The Fire Protection Bond Program has continued with Engineering and Planning for high pressure extensions, suction connections and new cisterns. Environmental requirements are being met and applications for several projects are currently under review.
2. The first construction project has begun; the conversion of the former 500,000 gallon tank at 44th and Santiago Street into a cistern.
3. The Fire Department has purchased high pressure hydrants, parts for high pressure extensions and pipe. Substantial savings were achieved by using large lot purchase orders so that we were \$3,000,000 under estimates when signing purchase contracts. This active management of the program will go a long way to ensure that all projects proposed will actually be built.
4. The first high pressure extension, on Third Street from Palou to Salinas is expected to go out to bid for construction in late November 1988, with two other extensions planned to get underway during 1989.

The San Francisco Fire Department has within the past few years become more involved with "Special Events." Through special events such as the San Francisco Fair, Golden Gate and Bay Bridge celebrations and Earthquake Week we are able to promote and educate the public on fire safety and earthquake preparedness.

The bi-monthly Newsletter that is published by this office keeps the public informed on the progress of the Bond Issue construction projects and other aspects of the Earthquake Preparedness Program.

BUREAU OF ENGINEERING AND WATER SUPPLY

The past fiscal year, 1987-88, has been both a disappointing and rewarding year for the members of the Bureau of Engineering and Water Supply. Severe shortages of staff and dependable equipment prevented the Bureau from meeting its annual goals, and for the most part, these shortfalls shall continue into 1988-89. Currently members of the Fire Department staff and members of the Bureau are reviewing the goals and performance to determine whether or not the goals should be modified in view of changing conditions.

There are a number of other factors which contributed to the degeneration of the Bureau's performance on the stated goals of fire hydrant servicing and painting. Resources frequently had to be shifted to emergency repair or other work which had a high degree of urgency connected to it; the Market Street Transit Project, as an example, has created a number of problems for the Bureau: relocation of High Pressure Hydrants connected to the Auxiliary Water Supply System and the weakening of the mains and joints of the System.

Also much extra work has been necessary because of the 1986 Fire Protection Bond program because the vast majority of the projects of the program deal with the Fire Department's Auxiliary Water Supply System.

The Auxiliary Water Supply System (sometimes referred to simply as the High Pressure System) has been operational for over 70 years and many of its components are in need of replacement. The Bureau of Engineering, Department of Public Works, released a preliminary report during fiscal 1987-88 that estimated that replacement of the System's mains is necessary. Their estimated cost is \$52 million. The Fire Department believes that this estimate is high for several reasons; however, the report illustrates that the System is in definite need of attention. Leaks in the System are becoming more frequent. The majority of these leaks are in the "infirm" areas of the City, the areas which

rest on filled Bay or marsh land. And it is in these same areas that the majority of the City's business enterprises are headquartered--Downtown, South of Market, and along the Waterfront--the economic heart of the City.

The Bureau of Engineering and Water Supply is under staffed by three Utility Plumbers, one Laborer, and five Stationary Engineers; however, the personnel of the Bureau have performed well under adverse circumstances during fiscal 1987-88.

Fiscal 1987-88 was also a year of historical significance for the Auxiliary Water Supply System and the people who run it, as well as for the citizens of San Francisco. In June, the Fire Department began using San Francisco Bay as the water supply for the Lower Zone of the System. This was done in response to the current drought in California and saves approximately 7,500,000 gallons of fresh water each month. This is the first time since the drought of 1927-28 that salt water has been used as the primary supply to the Auxiliary Water Supply System.

The primary source of supply for the Lower Zone is 750,000 gallons of water in Jones Street Tank; however, if pressure or supply is inadequate, Pumping Stations 1 and 2 can be put on-line to supply approximately 17,500 gallons per minute at this time.

The objectives of the Bureau of Engineering and Water Supply are to service 30 percent of the fire hydrants, to paint 25 percent of the fire hydrants, and to operate 33.3 percent of the estimated 3,071 valves installed in the Auxiliary Water Supply System each year. The Bureau statistics for fiscal 1987-88 are as follows:

	<u>Objective</u>	<u>Performance</u>
H.P. Hydrants Serviced	444	216
H.P. Hydrants Painted	372	89
H.P. Valves Operated	1,023	430
L.P. Hydrants Serviced	2,436	3,055
L.P. Hydrants Painted	2,028	620

BUREAU OF EQUIPMENT

The Bureau of Equipment with a staff of one officer and eight firefighters has the responsibility for the maintenance, repair, and the general condition of the Fire Department's fleet of apparatus and vehicles. In this capacity, the Bureau maintains a close working relationship with the Purchasing Department's Central Repair Shops. To effectively carry out its goals, the Bureau carefully schedules the maintenance and repair of the fleet to keep down-time of the apparatus to a minimum.

So that the Fire Department may take advantage of the latest technological developments in the design of fire equipment and apparatus, the Bureau of Equipment constantly reviews new apparatus, equipment, and techniques of firefighting; conducts field tests of apparatus and equipment under actual fireground conditions; and monitors the performance of the apparatus and equipment.

Working from many sources of information, the Bureau develops specifications for firefighting and rescue apparatus and equipment. These specifications are revised annually to reflect new developments, cost effectiveness, and market conditions. Often the research of the Bureau has led to the design and manufacturing of firefighting and related equipment by Central Repair Shops personnel. This has proven to be not only effective in producing superior equipment, but also very cost effective. This is particularly the case in today's economic environment of spiraling costs for the specialty equipment used in firefighting and rescue work.

Members of the Bureau of Equipment respond to alarms of fire or other emergency whenever the Incident Commander is in need of their assistance and whenever a greater alarm is struck. At the fire scene, the members of the Bureau operate specialized equipment, perform firefighting operations, and make emergency repairs to apparatus and equipment as required by the Incident Commander. Members of the Bureau also make emergency repairs or replacement of equipment at all hours of the night or day whenever needed by the Suppression forces.

In addition to their duties in the Fire Department, the Bureau often assists other city departments with emergency repairs and provides equipment and expertise as requested. During fiscal 1987-88, the Bureau assisted other departments on 41 occasions.

The Bureau of Equipment is also responsible for providing the materials and supplies to the fire stations and responded to over 11,500 requests last year. It also services and repairs all of the Fire Department's small power tools, fire extinguishers, and related equipment.

For the Bureau of Equipment to perform well in dealing with the many faceted aspects of its responsibilities, the personnel of the Bureau must constantly keep abreast of latest developments in the fire service. In order to do this, they participate, either as committee members or as San Francisco Fire Department representatives, in national, state, and local fire service organizations such as Northern Area Fire Equipment Research (NAFER), the California Fire Chiefs' Mechanics Association, the International Fire Chiefs' Mechanics Association, and the National Fire Protection Association (NFPA) Aerial Ladder Advisory Sub-Committee. Through these associations the Fire Department is able to gain valuable information so that the personnel of the San Francisco Fire Department have access to the latest developments in efficiency, economy, and safety when developing specifications for apparatus and equipment.

Also the San Francisco Fire Department is a nationally recognized leader in firefighting ability. Because of this, personnel who participate in these professional organizations often are asked for their opinions in developing standards which are adopted throughout the state and nation. It is unfortunate that more members of the Department are unable to participate in such organizations and bring back to the Department the skills and knowledge so essential, today more than ever, for effectively managing a modern, metropolitan fire department.

During the fiscal year, the Bureau of Equipment had the Underwriters' Laboratories test five aerial ladders in the Fire Department's fleet. Four of the five failed the test

and were consequently judged unsafe and placed out-of-service. One of the aerials will be repaired and returned to service; however, the remaining three will not be repaired because the cost of the repairs far exceed the value of the apparatus. The loss of the availability of these aerial trucks for service has placed a severe strain on the Department's relief fleet and threatens to jeopardize the Department's ability to keep all truck companies in-service.

The problem of unreliability is not limited to truck companies; engine companies and other units also break down frequently due mainly to the advanced age of the equipment. Currently the average age of the department's aerials is 14 years old, and the average age of the engines is also 14 years old. This should be reduced to 7.5 years for aerials and 5 years for engines.

In December, 1987, under the direction of the Mayor, members of the Fire Department, the Purchasing Department's Central Repair Shops, and the Chief Administrative Officer's office met to formulate a plan to address the Fire Department's declining reliability of its aging fleet of mobile equipment.

Three areas were assessed: the maintenance program of the Central Repair Shops; the Mobile Equipment Replacement Program of the Fire Department; and possible funding alternatives for the replacement program.

Briefly, the recommendations resulting from the study are as follows: (1) a maintenance program which includes preventative maintenance should be developed by the personnel of the Central Repair Shops; (2) the Fire Department's program for equipment replacement should be updated to counteract the lack of funding in recent years which placed the replacement program behind schedule; and (3) leasing of equipment for one to three years should be considered to provide funding for the revised replacement program even though leasing would cost the City more money in the long run and could further impact the Fire Department's ability to fund its replacement program in future years.

The following is a summary of the Fire Department's revised Equipment Replacement Schedule (ERS) for the acquisition of new equipment:

Equipment Replacement Schedule

BUDGET YEAR	MODEL	ENGINE PUMPERS	AERIAL TRUCKS
1987 - 1988	1989	1	1
1988 - 1989	1990	4	2
1989 - 1990	1991	4	2
1990 - 1991	1992	4	2
1991 - 1992	1993	4	2
1992 - 1993	1994	4	2
1993 - 1994	1995	4	2
1994 - 1995	1996	4	2
1995 - 1996	1997	4	2
1996 - 1997	1998	4	1
1997 - 1998	1999	4	1
1998 - 1999	2000	4	2
1999 - 2000	2001	4	1
2000 - 2001	2002	4	1
2001 - 2002	2003	3	0
2002 - 2003	2004	4	0
2003 - 2004	2005	4	0
2004 - 2005	2006	4	0
2005 - 2006	2007	4	1
2006 - 2007	2008	3	2
2007 - 2008	2009	4	2
2008 - 2009	2010	4	2

If this plan is followed, the equipment for the number of Engine Companies now in service will meet the objective of being no more than 10 years old by 1999, and the equipment for the number of Truck Companies now in service will meet the objective of being no more than 15 years old by 1996.

The following is a summary of the Fire Department's apparatus and command vehicle inventory:

Engine Companies, In-service.....41
 Engine Companies, Relief.....10

Truck Companies, In-service.....	18
Truck Companies, Relief.....	5
Heavy Rescue Companies, In-service.....	2
Heavy Rescue Companies, Relief.....	1
Chiefs' Command Vehicles, In-service.....	16
Chiefs' Command Vehicles, Relief.....	4
Support Apparatus, Suppression.....	31

As can be seen from the previous chart, the Fire Department's strength in relief engines and aerial trucks is insufficient. To maintain the apparatus fleet so that companies remain available for fire and other emergency response, a minimum ratio of one relief vehicle for every three first-line units (or fraction thereof) must be available and ready for service.

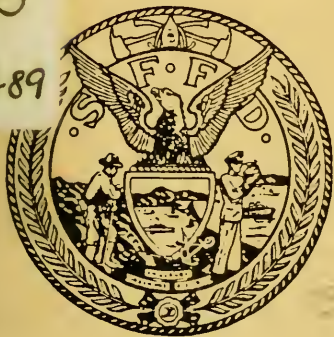
WATER RESCUE TEAM

The San Francisco Fire Department's Water Rescue Team is under the direction of Assistant Chief Bill Richardson. There are two teams of divers: Team 1 consists of all San Francisco Fire Department divers stationed within the city limits of San Francisco and is under the direct supervision of Captain John Rebholtz, Rescue Squad 2. Team 2 is located at the San Francisco International Airport and is under the supervision of Firefighter Jack McManus. The Airport Division has taken command of a newly designed dive and rescue boat. It contains state of the art equipment.

During the past fiscal year, the divers of the Water Rescue Team responded to nearly 50 water related emergencies. Companies stationed near the ocean beach were trained in surf rescue techniques. During the next fiscal year, it is hoped that training of new interested firefighters will result in certification of more divers.

Dive drills are held monthly, or as needed. Several of these drills are coordinated with the Navy, USCG, Park Service, and the EMS.

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Frederick F. Postel
Chief of Department

FIRE COMMISSION



Left to Right - Frank Quinn-Commissioner, Sharon Bretz-Commissioner, James Jefferson-President, Henry Berman-Commissioner, John Keker-Vice President



James D. Jefferson-President



Raymond G Connors Jr.-Secretary



Frederick F. Postel, Chief of Department



Michael T. Farrell, Deputy Chief...
Operations



John F. Boscacci, Deputy Chief...
Administration



Frank Scales, Asst Deputy Chief II

CITY AND COUNTY OF SAN FRANCISCO
SAN FRANCISCO FIRE DEPARTMENT

FREDERICK F. POSTEL, *Chief of Department*
MICHAEL T. FARRELL, *Deputy Chief...Operations*
JOHN F. BOSCACCI, *Deputy Chief...Administration*



280 GOLDEN GATE AVENUE
SAN FRANCISCO, CALIFORNIA, 94102
(415) 861-8000, EXTENSION 281

December 1, 1989

Honorable President and
Members of the Fire Commission

Dear Commissioners:

In accordance with Charter Section 3,501, I respectfully submit the San Francisco Fire Department's Annual Report for 1988-89.

I am pleased to submit this report to you and to the citizens of San Francisco containing a detailed description of the functions and the services the Department provides to the 1,500,000 people who are present in our city throughout each day.

During this fiscal year, incident response increased by 11.2% while only a 4.7% increase in budget expenditures was experienced. The Department responded to over 58,000 incidents, 26,000 of which were related to first-aid or resuscitation responses. In response to this increase in calls for assistance in life-threatening health cases, the Department enhanced its medical capabilities by training personnel in the use of cardiac defibrillation equipment and supplying this equipment to the units which respond to these incidents.

Uniformed members of the suppression forces not only received 70 letters of commendation, but 10 unit citations were awarded and 33 members were recognized for their individual acts of heroism in service to the citizens of San Francisco.

Underlying these functions and services are administrative accomplishments which are noteworthy and deserving of mention in this letter:

The Department is continuing to meet the goals outlined in the Consent Decree. Recruitment and retention programs were developed and utilized for candidates for the entry-level firefighter's rank, and both hiring and promotional examinations were administered. These programs and examinations, their attendant appointments and promotions, and the promotion of a minority member of the department to the position of Assistant Deputy Chief II, provide examples as to how these goals are being met.

Training in interpersonal relations, the impact of women in the fire service, and basic equal employment opportunity laws were provided on a department-wide basis in order to develop and heighten awareness regarding problems relative to racial, ethnic, religious, and sexual issues. Informal conflict resolution within the Department was addressed by the development of a unique project which provides training to Department members so that they may become peer mediators of conflict issues.

The Office of Emergency Services was integrated into the Department's budgetary process at the beginning of the year but retains administrative autonomy in its scope of responsibilities.

The Division of Fire Prevention and Investigation developed revenue producing legislation adopted by the Board of Supervisors and implemented inspection and plan checking programs which significantly defray its costs. Its public education unit has been instrumental in addressing the fire safety needs of a diverse population through programs targeted not only to children but also to the special needs of our sizeable senior citizen population. The Arson Task Force retained a 95% conviction rate for the crime of arson. This is the highest conviction rate in the country, 63% above the national average.

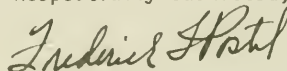
The Department's apparatus replacement and aerial ladder inspection programs have been maintained throughout the year. The majority of design and engineering work for the various projects relative to the Fire Protection Bond Program (1986 Ballot Proposition A) has been completed.

Department management developed and implemented a continuing rotation schedule for personnel at the mid-management level and developed a strategic plan which attempted to address and solve the Department's defined management problems. With the assistance of a management training organization, an internal study of the department was conducted to determine areas of need which could be improved by increased management training.

Firefighters have volunteered their time, assistance and financial support to programs which provide many services to the citizens of the community which they serve. For example, this year over 23,000 young children and maturing boys and girls received the benefits from two of these programs.

I wish to thank Mayor Art Agnos, the Board of Supervisors, and the Fire Commission for their continued support of this department in its efforts to provide service to the people of San Francisco.

Respectfully submitted,



Frederick F. Postel
Chief of Department

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Administration

SAN FRANCISCO FIRE DEPARTMENT
HEADQUARTERS
260 Golden Gate Avenue
San Francisco, California 94102

FIRE COMMISSION

James D. Jefferson - President
John W. Keker - Vice-President
Henry E. Berman - Commissioner
Sharon L. Bretz - Commissioner
Frank A. Quinn - Commissioner

' Raymond G. Connors - Fire Commission Secretary Room 204

ADMINISTRATION

Chief of Department
Frederick F. Postel Room 225

Deputy Chief of Department
Michael T. Farrell Room 225

Assistant Deputy Chief
John F. Boscacci Room 209

Division of Fire Prevention and Investigation
Joseph A. Medina - Fire Marshal Room 327

Division of Support Services
James R. Lynch - Division Chief Room 210
(assigned May 1, 1989)

Howard L. Slater, Division Chief
(re-assigned April 30, 1989)

Division of Management Services
Frank Scales, Jr. - Assistant Deputy Chief II Room 312
(Appointed 11-17-88)

Personnel Center
Frank J. Dunphy - Battalion Chief Room 314

Bureau of Engineering and Water Supply
Andrew K. Nielsen - Superintendent Room 219

Fire Department Physician
William A. Newsom, M.D. Room 307

Administration

Division 1 - Suppression Raymond A. Landi - Division Commander	Station 13
Division 2 Edward E. Murphy - Division Commander	Station 5
Division 3 John Hirshfeld - Division Commander	Station 7
Division of Airports George E. Berthold - Division Commander	S.F. Internat'l Airport
Division of Training Gary L. Musante - Division Chief	2310 Folsom Street
Bureau of Equipment Gilbert A. Moreno - Special Services Officer	2501 - 25th Street
Bureau of Communications Gary J. Torres - Battalion Chief	1003 Turk Street
Office of Emergency Services Mr. Thomas Jenkin	First Floor 260 Golden Gate Ave

FIRE DEPARTMENT CHAPLAINS

Catholic Chaplain

Father John Greene	- St. Michael's Church
Father John Wester	- Mission Dolores

Jewish Chaplain

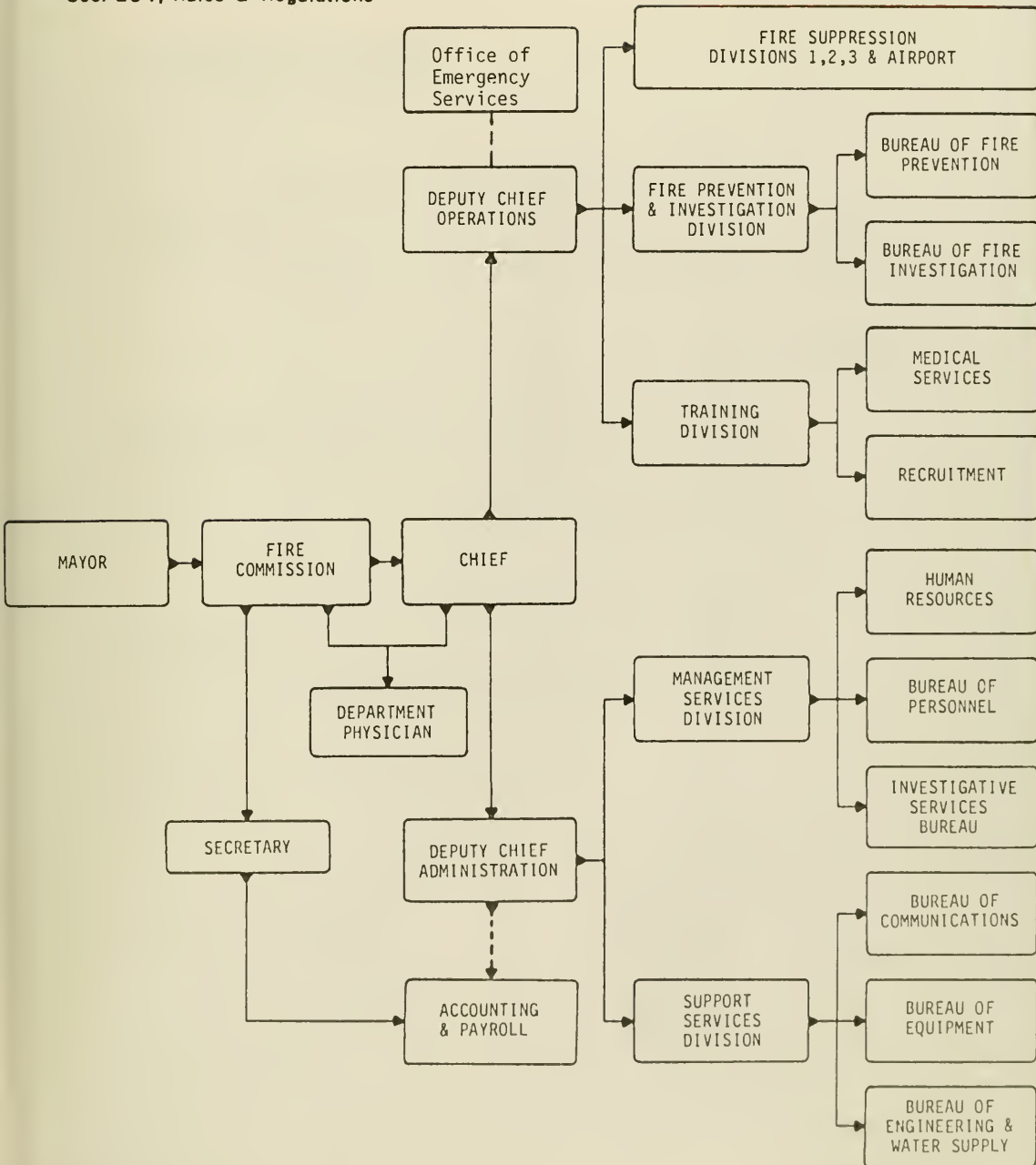
Rabbi Martin Weiner	- Temple Sherith Israel
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Protestant Chaplain

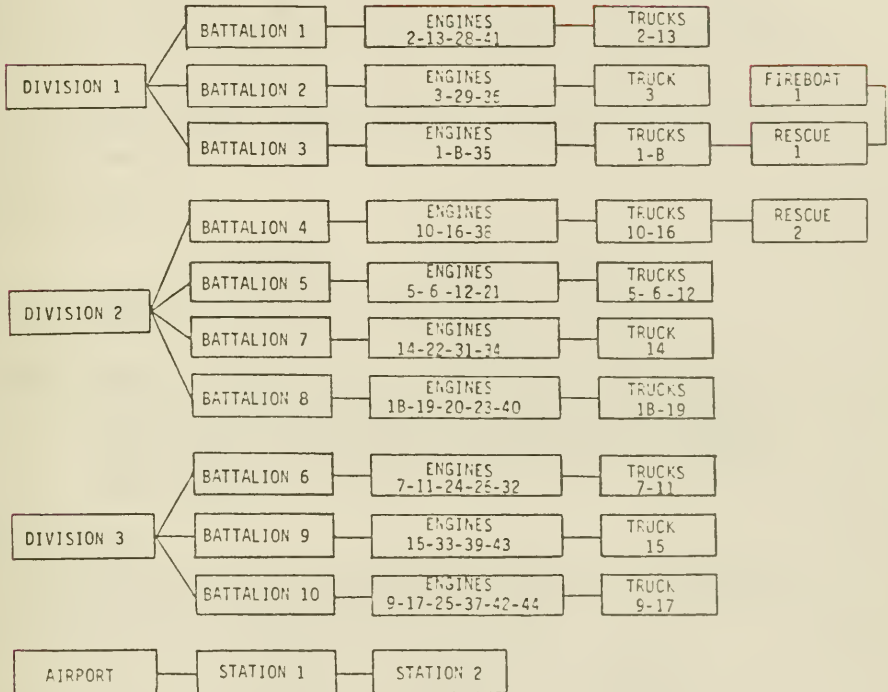
Reverend T. L. Thomas	- Mount Zion Missionary Baptist Church
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Administration

SAN FRANCISCO FIRE DEPARTMENT BASIC ORGANIZATION CHART Sec. 204, Rules & Regulations



SAN FRANCISCO FIRE DEPARTMENT BASIC ORGANIZATION CHART Sec. 204, Rules & Regulations



IN SERVICE
3 DIVISIONS
10 BATTALIONS
41 ENGINES
18 TRUCKS
2 RESCUE
1 FIREBOAT
1 SERVICE SQUAD
1 AP SECTION

IN RESERVE
2 SALVAGE
3 ATTACK HOSE TENDERS
3 HOSE TENDERS
1 SEARCHLIGHT
1 UTILITY UNIT
2 FUEL UNITS
1 VALVE UNIT
1 FOAM UNIT
4 MINI-PUMPERS

FISCAL

Budget - Personnel Cost

Rates of compensation for uniformed members of the Fire Department are established in accord with procedures set forth in Charter Section 8.405. These procedures include an annual survey of the rates of compensation paid firemen employed in cities in California with a population of 350,000 or more. The Civil Service Commission conducts the survey, and the rates they certify to the Board of Supervisors are the average of the maximum rates paid to firemen in the surveyed cities.

The personnel costs shown below include permanent salaries and wages, overtime, holiday, differential pay and temporary salaries for uniformed members:

Personnel Costs

	<u>1987-1988</u>	<u>1988-1989</u>	<u>Decrease</u>
Revised Budget	\$71,279,144	\$70,910,712	-\$368,432
Actual Expended	\$70,426,618	\$70,398,897	-\$ 27,721

Note: Rates of compensation for 1988-1989 were the same as 1987-88. Prop "I" (approved 11-04-86) required new salary survey for cities that approved pay rates annually after August 25th. There was no such survey in 1988-89 as salaries were frozen by Prop "B" at the election of June 7, 1988.

Budget - Data

During 1988-1989, budget allowances and expenditures compared to 1987-1988 for the Fire Department were as follows:

	<u>1987-1988</u>	<u>1988-1989</u>	<u>Increase</u>
Budget Allowances	\$132,585,030	\$137,532,550	\$4,947,520
Expenditures	\$130,916,941	\$137,096,752	\$6,179,811

Expenditure categories and percentages are as follows:

Personnel Services and Fringe Benefits	\$127,036,553	92.66%
Professional Services	1,334,736	.97
Other Contractual Services	241,576	.18
Travel/Training	128,061	.09
Other Services	326,980	.24
Materials and Supplies	654,625	.48
Fixed Charges (meritorious awards, dues)	4,986	.00
Equipment Purchases	1,778,870	1.30
Services of Other Departments	5,590,365	4.08
TOTAL	\$137,096,752	100.00%

Administration

Recapitulation of Budget Allowances and Expenditures:

Description	Budget	Expended	Under/(Over) Expended
Personnel Salary and Wages			
Permanent Salaries - Misc.	\$ 2,149,766	\$ 2,085,401	\$ 64,365
Permanent Salaries - Uniformed	53,567,533	53,567,533	0
Permanent Salaries - Craft	749,975	733,805	16,170
Differential Pay	112,955	107,847	5,108
Temporary Salaries	204,685	204,680	5
Overtime	70,257	70,257	0
Holiday Pay	4,240,149	4,207,233	32,916
Extended Work Week			
Extended Work Week - City	11,471,598	11,356,002*	115,596
Extended Work Week - AP & Port	651,162	537,370**	113,792
Mandatory Fringe Benefits	53,595,272	53,543,513	51,759
Payment in lieu of Sick Leave	867,315	622,912	244,403
Sub-Total	\$127,608,667	\$127,036,553	\$ 644,114
Professional Services	1,334,736	1,334,736	0
Other Contractual Services	241,576	241,576	0
Travel/Training	128,061	128,061	0
Telephone, and Other Services	326,980	326,980	0
Materials and Supplies	654,628	654,625	3
Fixed Charges			
(meritorious awards, dues)	4,986	4,986	0
Equipment Purchases/Leases	1,779,845	1,778,870	975
Services of Other Departments:			
Police	17,000	16,999	1
Health Dept. -			
SFGH/HazMat/EAP/Coroner's	36,860	36,860	0
Electricity	46,900	46,900	0
Central Shops	1,919,060	1,919,055	5
Civil Service - Training	395,093	395,071	22
Water Department	36,000	36,000	0
DPW - Street Cleaning	1,000	995	5
DPW - Street Repair	15,000	15,000	0
DPW - Sewer Service Charges	46,196	46,190	6
DPW - Building Repair	137,000	137,000	0
Light, Heat & Power	339,891	339,891	0
Workers' Compensation	2,361,519	2,570,852	(209,333)
Controller - ISD	5,752	5,752	0
Reproduction Bureau	23,800	23,800	0
TOTAL	\$137,532,550	\$137,096,752	\$ 435,798

*Includes \$299,485 for Vacation Ordinance pay - final year

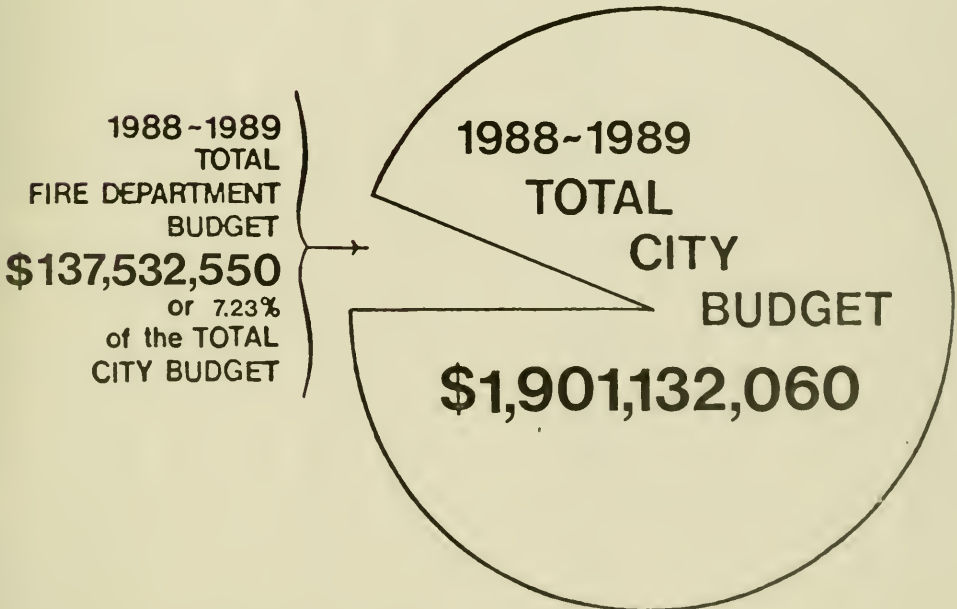
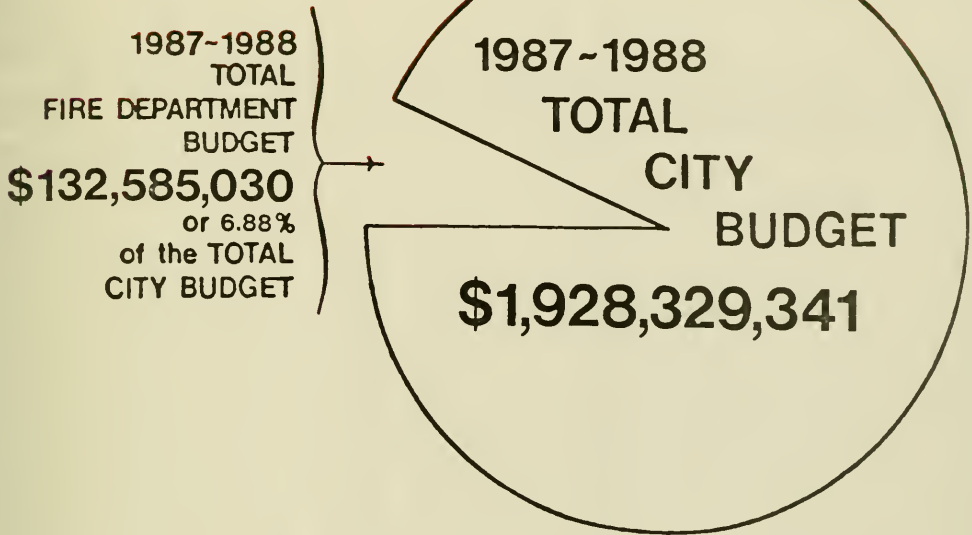
**Includes \$22,287 (\$20,400 - Airport, \$1,887 - Port)
for Vacation Ordinance pay.

Administration

Department Revenues

Estimated revenues and amounts collected during 1988-1989 were as follows:

<u>Account</u>	<u>Description</u>	<u>Estimated</u>	<u>Collected</u>
7166	Posting fees	\$253,739	\$425,087
7167	Original filing fees	67,711	102,603
7192	Roof & Salvage covers	2,935	3,045
7216	Miscellaneous service charges	57,691	38,064
7299	High Rise Inspection Fees	<u>925,997</u>	<u>907,810</u>
	TOTAL	<u>\$1,308,073</u>	<u>\$1,476,609</u>



SAN FRANCISCO FIRE DEPARTMENT - AUTHORIZED PERSONNEL BUDGET - 1988 / 1989

C.O. 140	D.C. 150	A.D.C. 145	A.C. H-50	S.C. H-40	CAPT. H-30	SP-5 H-29	LT. H-20	OP-TR H-19	COORD H-18	OPR. H-10	F.F. H-2	PILOT H-120	M-ENG H-110	CAPT. H-32	LT. H-22	LT. H-24	INSP. H-4	INV. H-6	TOTAL
1	1		1	1	2	1	6				1			2 1	4	1	19	11	1 9 26 13 1 2 2 4 22 4
1	1	1	3	4	3	1	17	0	1	0	14	0	0	3	4	1	19	11	84

1	1	1	3	4	3	1	17	0	1	0	14	0	0	3	4	1	19	11	84
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			10						7								7
									10								20
			34						34								63

[illegible][illegible]

			1			2			3	3		1			10
			1			2			14						17
			1			2			14						17
			1			2			3						3
	1		3		7	1			52				1		65
									7						7
									3						3
1	6	11		41			5	125							189

1	1	1	15	44	79	1	210	1	1	56	1055	3	3	3	5	1	20	11	1512
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Administration

SAN FRANCISCO FIRE DEPARTMENT - AUTHORIZED PERSONNEL BUDGET - 1988-1989

NON-UNIFORMED PERSONNEL

CONSENT DECREE:	1 1231 Assoc. Affirm. Action Officer
	1 1446 Secretary II
	1 1808 MIS Technician I
PREVENTION:	2 1424 Clerk Typist
	2 1426 Sr. Clerk Typist
	1 1446 Secretary II
	1 1450 Executive Secretary I
	2 5215 Fire Protection Engineer
	6 6280 Fire Safety Inspector I*
	12 6281 Fire Safety Inspector II**
INVESTIGATION:	1 1426 Sr. Clerk Typist
SUPPORT SERVICES:	1 1446 Secretary II
	1 1924 Materials & Supplies Supv.
	1 2708 Custodian
	1 5258 Sr. Mechanical Engineer
	1 5362 Civil Engineer Asst. II
	1 7205 Chief Stationary Engineer
	1 7335 Sr. Stationary Engineer
	1 7230 Water System Supv.
	1 7323 Water System Asst. Supv.
	4 7334 Stationary Engineer
	10 7338 Utility Plumber
	1 A712 Hydrant Service Person
	2 7514 General Laborer
ADMINISTRATION:	5 0160 Member, Fire Commission
	1 1202 Personnel Clerk
	1 1204 Sr. Personnel Clerk
	2 1220 Payroll Clerk
	2 1222 Sr. Payroll & Pers. Clerk
	1 1224 Princ. Payroll & Pers. Clerk
	2 1424 Clerk-Typist
	2 1426 Sr. Clerk-Typist
	2 1446 Secretary II
	1 1450 Executive Secretary I
	1 1454 Executive Secretary III
	1 1540 Secretary, Fire Commission
	1 1650 Accountant
	1 1654 Principal Accountant
	5 1708 Sr. Telephone Operator
	1 1818 MIS Specialist
	1 1842 Management Assistant
	1 2220 Physician (P/T)
	1 2230 Physician Specialist (P/T)
	1 8165 Worker's Comp. Supv. I

Administration

TRAINING:	1	1426 Sr. Clerk Typist
EMERGENCY SERVICES	1	8246 Director, Emergency Services
	<u>1</u>	8247 Planning Coordinator
Total Non-Uniformed Personnel	92	
Total Uniformed Personnel	<u>1512</u>	
TOTAL Department Personnel	1604	

*One 6280 is assigned to, and funded by, Airport

, **One 6281 is assigned to, and funded by, DPH

SEPARATIONS FROM SERVICE - UNIFORMED FORCE

Effective Date

H50 Assistant Chief

Robert J. Korbus	Oct. 01, 1988	Ind. Dis.
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H40 Battalion Chief

John W. Flaherty	Jan. 01, 1989	S
Robert D. Bechler	Mar. 18, 1989	Ind. Dis.
Michael L. Goodin	Feb. 05, 1989	Ind. Dis.

H30 Captain

Richard A. Seike	Aug. 20, 1988	S
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H20 Lieutenant

Paul E. Alber	Jul. 14, 1988	S
George D. Tobin	Jul. 30, 1988	S
Jack F. Pacheco	Aug. 23, 1988	S
Everett L. Belcher	Aug. 20, 1988	Ind. Dis.
Grover G. Kenney	Sep. 17, 1988	Ind. Dis.
Philip C. Favro	Jan. 03, 1989	Res.
Gary L. Lindley	Feb. 28, 1989	S
Richard Richardson	Feb. 04, 1989	S
John F. Brajkovich	Mar. 04, 1989	Ind. Dis.
John J. Walsh	Mar. 10, 1989	Ind. Dis.
John J. Puccinelli	Nov. 23, 1988	Ind. Dis.

H4 Inspector

Alfred F. Dalcielo	Aug. 01, 1988	S
Eugene E. Eden	Sep. 20, 1988	S

Administration

Effective Date

H2 Firefighter

Daniel J. Erlach	Jul. 23, 1988	S
Edward W. Schuldt	Jul. 08, 1988	Ind. Dis.
Gerald P. Kennealy	Aug. 02, 1988	Ind. Dis.
Dennis E. Field	Aug. 13, 1988	Res.
Robert McGriff	Aug. 09, 1988	Term.
Mack Arther Ross	Aug. 09, 1988	Term.
Dominic A. Cannuli	Sep. 14, 1988	S
Thomas J. Sullivan	Oct. 01, 1988	S
Gerald J. Coghlan	Jan. 05, 1989	Res.
Emitt N. Jackson	Jan. 10, 1989	Res.
Jerry N. Puckett	Jan. 24, 1989	Res.
Jack J. Borodin	Feb. 16, 1989	Dec.
Lawrence Schlarmann	Sep. 01, 1988	Ind. Dis.
Robert F. Lamey	Feb. 18, 1989	Ind. Dis.
Steven A. Guerrazzi	Jan. 14, 1989	Ind. Dis.
Kirsten A. Lopez	Jun. 27, 1989	Res.

TOTAL UNIFORMED FORCE SEPARATIONS

Retirement (Service)	12
Retirement (Ind. Dis.)	13
Retirement (Ord. Dis.)	0
Resignation (Res.)	6
Termination (Term.)	2
Deceased (Dec.)	<u>1</u>
Total	34

APPOINTMENTS

1988-1989

H51 Asst. Deputy Chief II

Frank Scales, Jr.	Exempt	Nov. 17, 1988
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H50 Assistant Chief

James R. Lynch		Dec. 09, 1988
Arthur W. Kenney		May 26, 1989

H40 Battalion Chief

William E. Hennessey	TCS	Nov. 22, 1988
Frank Carrozzi	TCS	Nov. 22, 1988
John M. Harris	NCS	Dec. 30, 1988
John F. Pender	NCS	Jan. 21, 1989
William T. Cochrane	NCS	Mar. 04, 1989
John J. Norton	Lim. Ten.	May 26, 1989
Lynwood R. Dee	Lim. Ten.	Jun. 09, 1989

H39 Captain, Div. of Training

Elmer M. Ballard	Exempt	Dec. 24, 1988
Alberto B. Da Cunha	Exempt	Dec. 24, 1988

H30 Captain

Audry Lee		Dec. 28, 1988
Robert L. Demmons		Dec. 28, 1988
George W. Maloney		Jan. 09, 1989
Joseph M. Wright		Jan. 21, 1989
Daniel J. Murphy		Mar. 09, 1989
John M. Traversaro		Apr. 10, 1989
James A. Sullivan		Apr. 25, 1989
John Tizio		Apr. 25, 1989
Phillip R. Kavanaugh		Apr. 25, 1989
Edward N. Gee		Apr. 25, 1989
Thomas M. Velasquez		May 26, 1989
Raymond Tomasello		Jun. 09, 1989

H28 Lieutenant, Div. of Training

Paul J. Davis	Exempt	Dec. 24, 1988
Richard E. Armstrong	Exempt	Dec. 24, 1988
Anthony R. Stefani	Exempt	Dec. 24, 1988
Garry L. Bradford	Exempt	Feb. 24, 1989
Patrick J. Casserly	Exempt	Feb. 24, 1989
Ronald A. Rodriguez	Exempt	Feb. 24, 1989
Early L. Davis	Exempt	Mar. 04, 1989

H16 Technical Training Specialist

' George C. Nelson	Exempt	Sep. 25, 1988
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H4 Inspector

Garrett G. Griffin	Lim. Ten.	Aug. 06, 1988
Maurice Andaya	Lim. Ten.	Oct. 10, 1988
George Delfino	Lim. Ten.	Oct. 10, 1988
Donald B. Del Bene	Lim. Ten.	Dec. 19, 1988
James M. Gravanis	Lim. Ten.	Dec. 19, 1988
Ernest F. Li	Lim. Ten.	Dec. 19, 1988
Edward F. De Cossio	NCS	Mar. 20, 1989
Edward J. Parrott	NCS	Mar. 20, 1989

H10 Chief's Aide

James B. Fex	Aug. 25, 1988
H. Brendan O'Leary	Aug. 25, 1988
John J. Ferrando	Aug. 25, 1988
William J. Bartels	Sep. 12, 1988
Thomas E. Harvey	Sep. 12, 1988
Kenneth W. Klemme	Sep. 12, 1988
Richard L. Lauer	Sep. 12, 1988
John G. Vander Vennett	Sep. 12, 1988
Paul R. Vega, Jr.	Sep. 12, 1988
Eduardo B. Gonzalez	Nov. 17, 1988

H2 Firefighter

Frederick G. Reppun (returned to H2 FF from H10 Chief's Aide)	Jul. 23, 1988
John W. Hester (returned to H2 FF from Prob. H20 Lieut.)	Dec. 17, 1988
Henry Tam	May 01, 1989
Philip T. Stevens	"
Patrick K. Mullaney	"
William R. McFarland	"
Matthew J. McNaughton	"
Steven L. Miller	"
Anesto R. Estrella	"
Brett F. Evart	"
Ramon Barreto, Jr.	"
Kevin M. Burke	"
Charles G. Farrugia	"
Derek B. O'Leary	"
Felix T. Duag, III	"
Patrick E. Murphy	"
William E. Linney	"
John Cheung	"
Barry D. Wong	"
Winona M. Jones	"
Curtis Young	"
Arnie Lee	"
Kristen A. Lopez	"
David W. Lee	"
Michael R. Bryant	"
Melchor-Jorge B. Picardal	"
Angela T. Freeman	"
Donald R. Durkee	"
Edward A. Roland	"
Lynnette D. Dreyer	"
Elyse R. Duckett	"
Nikki P. Griffey	"

SEPARATIONS FROM SERVICE - CIVILIAN

	<u>Effective Date</u>	
<u>8165 Worker's Comp. Supv.</u>		
Joseph A. Schillaci	Dec. 05, 1988	Ord. Dis.
<u>7514 General Laborer</u>		
Wayne R. Nowell	Jan. 24, 1989	Term.
<u>7388 Utility Plumber</u>		
John W. Morehouse	Jul. 30, 1988	S
Joseph P. Reid	Jul. 01, 1988	S
<u>7334 Stationary Engineer</u>		
Norval E. McGregor	Nov. 13, 1988	NCS Sep.
Ruben S. Alido	May 17, 1989	Term.
<u>6281 Fire Safety Inspector II</u>		
Barry D. Wong	Apr. 30, 1989	Res.
<u>2708 Custodian</u>		
Jose Ramos, Jr.	Jun. 30, 1989	Laid Off
<u>1808 Management Information System Tech. I</u>		
Gloria Yee	Oct. 07, 1988	Res.
Rosa M. Martinez	Apr. 11, 1989	Res.
<u>1924 Materials & Supplies Supervisor</u>		
Dilnawaz H. Syed	Aug. 12, 1988	Laid Off
<u>1446 Secretary II</u>		
Regina M. Connors	Dec. 02, 1988	L/T Trans.
<u>1426 Senior Clerk Typist</u>		
Julian G. Oliver	Feb. 19, 1989	Dec.
Susan J. Wong	Jun. 30, 1989	NCS Sep.

Administration

1424 Clerk Typist

Karen L. Statham

Aug. 21, 1988

Res.

1242 Personnel Analyst

Brian G. Moritsch

Jan. 20, 1989

Res.

APPOINTMENTS - MISCELLANEOUS

8247 Emergency Planning Coordinator

Carl B. Koon		Jul. 01, 1988
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8246 Director, Emergency Services

Thomas Jenkin	NCS	Jul. 01, 1988
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7514 General Laborer

Sheryl A. Brennan		Jun. 05, 1989
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7388 Utility Plumber

Dennis D. Murphy		Jul. 11, 1988
Daniel J. Godfrey		Oct. 17, 1988

7334 Senior Stationary Engineer

Paul M. Bonitz	NCS	Aug. 11, 1988
Norval E. McGregor	NCS	Jan. 31, 1989
Ruben S. Alido		Feb. 28, 1989

6280 Fire Safety Inspector I

Marta M. McGovern	TCS	Apr. 17, 1989
Marta M. McGovern		May 22, 1989

6281 Fire Safety Inspector II

Mary J. Boucher		May 22, 1989
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2230 Physician Specialist

Odelia Braun	Perm. Exempt	Jul. 25, 1988
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1924 Materials & Supplies Supervisor

Alvin C. Moses		Aug. 16, 1988
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1818 Management Information Specialist II

Anton Kamby, Jr.	NCS	May 01, 1989
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Administration

1808 Management Information System Tech. I

Gloria Yee	NCS	Sep. 19, 1988
Rosa M. Martinez	NCS	Oct. 31, 1988

1450 Executive Secretary I

Leila K. Mirchandani		Jun. 12, 1989
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1446 Secretary II

Regina M. Connors	L/T Transfer	Oct. 26, 1988
Arletta J. McGrew-Branchcomb		May 01, 1989

1426 Senior Clerk Typist

Susan Wong	NCS	Aug. 15, 1988
Althea Gibson		Apr. 10, 1989

1424 Clerk Typist

Helen R. Arbis		Sep. 26, 1988
Evamarie D. Atijera		Jan. 17, 1989

DISCIPLINARY ACTION

Disciplinary actions taken in the Fire Department during fiscal 1988-89 totaled 26 suspensions ranging from 1 to 90 days.

THE HISTORY OF THE REIGN OF KING CHARLES THE FIRST, FROM HIS MARRIAGE TO THE DEATH OF HIS SON, CHARLES THE SECOND, IN THE YEAR 1649. BY JOHN BURNET, BISHOP OF SALISBURY.

IN TWO VOLUMES. THE SECOND VOLUME.

LONDON, Printed by J. Streater, at the Sign of the Gun, in St. Dunstons Church, in the Strand, 1724.

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PERSONNEL CENTER

The Personnel Center is responsible for maintaining personnel records, scheduling vacations, reporting and recording personnel status, and balancing daily staffing strength including hiring overtime personnel and filling vacant classifications.

The total scheduled daily staffing strength for fiscal year 1988-89 was 331.71 firefighters per day as compared to 336 firefighters per day for the previous year.

The average daily strength was reduced by 71.46 firefighters on duty per day due to absences for vacations, military leaves, disability leaves, sickness, etc. This 21.54 percent average absence rate exceeds the Fire Department's goal of no more than a 15 percent absence rate. In order to achieve this goal, the Department is following an aggressive policy to reduce absences. Deficiencies in staffing are alleviated by hiring overtime personnel.

MANAGEMENT SERVICES

The activities of the Division of Management Services include, but are not limited to, the following:

1. Ensuring successful implementation of the Consent Decree
2. Developing career and educational programs for uniform personnel
3. Developing and coordinating Human Relations programs for Department personnel
4. Coordinating the investigations of discrimination and harassment complaints
5. Coordinating the firefighter recruitment program
6. Reviewing the external and internal investigation of complaints
7. Coordinates activities of the Vehicle Accident Review Board
8. Compiles disability injury statistics
9. Coordinates activities of the Merit Advisory Board
10. Labor Relation activities as directed by the Chief of Department
11. Public information - provide information on various Department programs and activities to the general public as directed by the Chief of Department

Educational Programs

The Department has continued to develop training programs that enable members to improve their skills as firefighters and officers in the Department. Department-wide training was conducted on racial and sexual harassment and Equal Employment Opportunity (EEO) training. Assistant Chiefs and Battalion Chiefs were provided in-depth training on conducting EEO investigations.

The Division coordinated and began implementation of training for the entire Department on cross-cultural issues. This training focused on enhancing the relationships within the Department and within the community it serves.

Human Resources

The Manager of Human Resources coordinated, designed, implemented and conducted various training programs some of which were Interpersonal Relations, Women in the Fire Service, Basic EEO Laws.

The Manager of Human Resources is available as a technical resource to those individuals who investigate complaints of discrimination for the Department. The Manager also participates and assists in ongoing recruitment efforts.

The Anti-defamation League of B'nai B'rith conducted their "World of Difference" program throughout the Department. It was a program designed to increase prejudice awareness and reduce racial, ethnic, and religious friction in the Department.

A Peer Mediation Training Project was designed and developed. The project's purpose is to train peer mediators to informally resolve conflict in the Department. This unique project is scheduled for implementation in September, 1989.

A women firefighter's support group was established in 1988. Its existence successfully provides a forum for experience-sharing and encourages peer group support among the women firefighters.

FIREFIGHTER RECRUITMENT

The Firefighter Recruitment unit was formed and developed specifically for the targeted recruitment efforts spelled out in the Consent Decree. The major activities of the Recruitment Team included the following:

Phase 1

Community Awareness – going to the prospective communities and enlisting the help of various community-based organizations in delivering our recruitment message specifying the need for more women and minorities to consider the San Francisco Fire Department as a career.

Phase 2

The actual recruitment effort:

1. Development of Public Service announcements, posters, brochures, ads, etc. This was accomplished by a media consultant.
2. Orientation sessions for various community-based organizations.
3. Participation in Career Days, Youth Fairs, Community Colleges, Community Events, and various grass roots meetings in targeted areas.
4. Maintain statistics and data bank for all targeted applicants.
5. Distribution of recruitment materials to the community organizations participating in the recruitment effort.

Phase 3

Retention – this is essential to help eliminate a loss of interest from the period of application to the time the written exam is given and to the time the physical ability test is administered. Methods used by the Recruitment Team were information mailings and direct telephone communication with potential candidates.

As a result of the recruitment effort, the number of applicants recruited and retained for testing was higher than current city-wide census figures for all protected groups except Asians. The following are the statistics for the applicant pool:

White	1,752	35.2%
Black	1,098	22.0%
Hispanic	1,272	25.5%
Asian	546	11.0%
Filipino	252	5.1%
U.S. Indian	60	1.2%

Total.....4,980

Of the 4,980 total applicants, approximately 15% were women.

At the culmination of this successful recruitment effort, the following organizations and individuals were presented with "Certificates of Merit" by the Chief of Department at the June 28, 1989 Fire Commission meeting:

Community-based Organizations

Women in Apprenticeship

John Adams Prep School

John Adams Prep School

John Adams Prep School

Eva Clark

Nick Chang

Blanche Baker

McAteer High School Bi-Lingual Department

EEO Unit Civil Service

Mission Hiring Hall

Luisa Esquerro

Diana Garcia

Eva Cordero

Ella Hill Hutch Community Center

Ocean Merced Ingleside

Southeast Community College

Millard Larkin

Larry Chew

Patricia Walton

Japanese Community Youth Council

Filipino American Training Center

Chinese for Affirmative Action

Chinese for Affirmative Action

Jeff Mori

Dr. Sofia Prudenciano

Tse Ming Tam

Julie Chan

INVESTIGATIVE SERVICES BUREAU

The Investigative Services Bureau (ISB) functions as the internal investigative unit of the San Francisco Fire Department under the Deputy Chief of Administration.

The Bureau is staffed by an H-30 Captain, who is the officer-in-charge, and one H-20 Lieutenant.

The Investigative Services Bureau is responsible for the following functional areas:

Internal Affairs Investigations

The Bureau is responsible for investigating internal affairs complaints when directed by the Chief of Department, Deputy Chief of Operations or Deputy Chief of Administration. The Bureau manages the drivers tracking program, investigates citizen complaints (other than EEO complaints) testifies before the Commission in regards to any ISB related investigation or inquiry, and is on call to assist field command staff with regard to investigations.

Substance Abuse Testing Program Manager

The Bureau maintains the disciplinary drug testing program, which includes collection of evidence, security of samples, and the maintenance of records of rehabilitation drug screening, and scheduling of such tests. The Bureau is responsible for keeping abreast of technical and legal developments impacting on the Department's drug testing program and, when necessary, changing test protocol to conform to the highest legal and technical standards. The Bureau acts as liaison to the Toxicology Division of the Medical Examiner's office. ISB personnel testify before the Commission or other bodies of law in regards to substance abuse related cases when necessary.

Background Investigations of New Employees

The ISB gathers the background history information of potential employees of the Department utilizing State Department of Justice standards and as mandated by San Francisco Fire Department policy 026 (Background Investigative Procedures), to include criminal history, driving history, past employment, residence when applicable, and other areas of inquiry. The Bureau acts as liaison with the Civil Service Commission with regards to employment issues of potential employees.

Liaison with City and District Attorney

The ISB acts as liaison in scheduling department members for depositions and in the issuance of summons/subpoenas and/or any other area in which liaison is necessary with these offices. The Bureau assists these offices when necessary in preparing cases involving the Department.

Liaison with Local Police Agencies

The Bureau maintains liaison with area police agencies to develop inter-agency involvement in cross-jurisdictional cases and develop and maintain procedures used to deal with cases involving the Department or its members. The ISB assists the San Francisco Police Department Psychiatric Liaison Unit with matters regarding Department personnel.

Assists the Deputy Chief of Administration

The ISB assists the Deputy Chief of Administration in preparing discipline cases for adjudication before the Fire Commission. The Bureau collects reports, statements, and other documents for use by the Deputy Chief in prosecuting cases for the Department. The Bureau, when necessary, assists the Deputy City Attorney assigned to the Department in the preparation of discipline cases when directed by the Deputy Chief of Administration. The Bureau assists the Deputy Chief with periodic or special studies/projects as required.

Instruction

The Bureau prepares and provides courses involving substance abuse testing and/or related issues or internal investigation procedures when required.

Recapitulation of Bureau Activities for 1988-89

Background Investigation	89
Internal Investigations	10
Drug Tests Cause/Rehabilitation	47
Instruction (classes taught)	04

VEHICLE ACCIDENT REVIEW BOARD

The reduction of vehicle accidents involving the Department's rolling stock is the continuing objective of the Vehicle Accident Review Board. The Board reviews all vehicle accidents and conducts hearings to determine the cause. This information enables the Board to recommend changes in driving policies and driver training courses.

Vehicle accidents decreased from 103 to 101 for fiscal year 1988-89. This statistic is impressive considering the fact that the number of emergency responses increased by nearly 6,000. This is the second year in a row that accidents decreased while responses increased. Department drivers are to be commended for their safe driving habits.

Administration

Vehicle Accidents by Unit Classification

	<u>Fiscal Years</u>				
	<u>84/85</u>	<u>85/86</u>	<u>86/87</u>	<u>87/88</u>	<u>88/89</u>
<u>FIRE SUPPRESSION</u>					
Deputy & Chief of Department	3	0	3	0	1
Assistant Chiefs	0	1	1	3	0
Battalion Chiefs	3	3	4	0	4
Engine Companies	48	52	48	54	44
Truck Companies	16	24	22	29	29
Hose Tenders	1	0	0	0	0
Salvage Companies	0	0	0	0	0
Rescue Companies	3	4	5	3	1
Service Squad	1	2	1	0	0
Foam Unit	0	0	0	0	0
Fuel Unit	0	0	0	0	0
Utility Unit	0	0	0	0	0
Airport Companies	4	3	3	1	3
	<u>79</u>	<u>89</u>	<u>87</u>	<u>90</u>	<u>82</u>
<u>SUPPORT SERVICES</u>					
Division of Fire Prevention and Investigation	7	9	10	6	8
Personnel Center	0	0	0	0	0
Bureau of Training	1	0	0	1	0
Bureau of Engineering & Water Supply	9	8	9	6	7
Special Details	0	0	0	0	0
Photo Unit	0	0	2	0	0
Bureau of Equipment	0	0	1	0	0
Headquarters Staff	2	2	0	0	2
Other Vehicles	1	0	0	0	2
	<u>20</u>	<u>20</u>	<u>22</u>	<u>13</u>	<u>19</u>
<u>GRAND TOTALS</u>	<u>99</u>	<u>109</u>	<u>109</u>	<u>103</u>	<u>101</u>

Vehicle Accidents by Classification

Emergency and Non-Emergency - Driving Combined

	<u>84/85</u>	<u>85/86</u>	<u>86/87</u>	<u>87/88</u>	<u>88/89</u>
Total Accidents	99	109	109	103	101
Judged Preventable	65	70	69	61	61
Total Alarms	39,189	43,050	44,498	52,332	58,178

Type of Accident

Collision with Fixed Objects--Parked Vehicles Buildings, etc.	45	52	51	48	45
Moving Vehicles	44	40	46	38	36
Another SFFD Vehicle	3	5	3	2	1
Other	7	12	9	8	9
Intersection Collision	12	9	9	7	10

Fire Department Vehicle Collided With

A Moving Vehicle	44	40	46	44	38
A Parked or Stopped Vehicle	36	33	39	38	35
Another Fire Department Vehicle	3	5	3	2	2
Fire Department Building or Object	9	19	12	11	15
Other	<u>7</u>	<u>12</u>	<u>9</u>	<u>8</u>	<u>11</u>
<u>TOTAL</u>	99	109	109	103	101

What Fire Department Vehicle Was Doing

At Time of Accident

	<u>84/85</u>	<u>85/86</u>	<u>86/87</u>	<u>87/88</u>	<u>88/89</u>
Moving Straight Ahead	46	43	34	45	38
Turning Right	13	12	14	12	14
Turning Left	2	16	10	7	10
Backing Into Quarters	8	9	12	9	9
Backing (Other)	19	12	14	11	13
Stopped	11	17	25	19	17
<u>TOTAL</u>	<u>99</u>	<u>109</u>	<u>109</u>	<u>103</u>	<u>101</u>

Damage to Fire Department Vehicle

Sideswipes	43	45	37	28	41
Right Angle	12	7	1	15	13
Rear Ends	12	8	21	12	12
Front Ends	11	20	17	15	13
Other	5	6	6	6	6
No Damage	16	23	32	27	16
<u>TOTAL</u>	<u>99</u>	<u>109</u>	<u>109</u>	<u>103</u>	<u>101</u>

DISABILITY INJURIES

	<u>1987-88</u>	<u>1988-89</u>	<u>Change</u>
Total Injuries	692	912	+220
LWD Injuries	505	756	+251
Lost Work Days	13,575	19,876	+6301
LWD per LWD Injuries	26.88	26.29	-0.59

<u>Lost Work Day Injuries</u>	<u>1987-88</u>		<u>1988-89</u>	
	<u>Injuries</u>	<u>LWD</u>	<u>Injuries</u>	<u>LWD</u>
Engine Companies	219	6971	348	8953
Truck Companies	144	4519	221	6468
Rescue Companies	16	665	19	394
Airport Companies	9	825	41	1245
Division 1-2-3	6	25	11	339
All Battalions	30	236	42	1291
Fireboat Company	5	40	12	200
Fire Prev. & Investigation	13	46	39	317
Others	16	248	23	669
<u>TOTAL</u>	<u>505</u>	<u>13,575</u>	<u>756</u>	<u>19,876</u>

<u>Where Injury Occurred</u>	<u>1987-88</u>		<u>1988-89</u>	
	<u>With LWD</u>	<u>Without LWD</u>	<u>With LWD</u>	<u>Without LWD</u>
1. Fires	247	84	357	63
2. Other Emergencies	127	27	148	21
3. On Department Property	88	57	163	44
4. Drills, Off Department Property	10	2	24	3
5. Inspection Work	13	4	25	4
6. Emergency Vehicular Movement	2	1	7	3
7. Non-Emergency Vehicular Movement	3	2	6	2
8. Routine Duties (Auxiliary Ser.)	3	2	8	8
9. Not Otherwise Classified	11	6	10	6
10. Drill Tower (Training)	1	2	10	6
<u>TOTAL</u>	<u>505</u>	<u>187</u>	<u>756</u>	<u>156</u>

<u>What Injured Was Doing</u>	<u>1987-88</u>		<u>1988-89</u>	
	With LWDs	Without LWDs	With LWDs	Without LWDs
1. Handling hose - - - - -	61	29	88	25
2. Handling ladders- - - - -	24	7	71	14
3. Handling axes - - - - -	1	3	23	2
4. Handling ceiling hooks- - - - -	1	1	3	4
5. Handling Gleeson Valves - - - - -	1	1	1	0
6. Handling salvage covers - - - - -	6	0	0	0
7. Handling other tools and equipment-	68	12	53	10
8. Handling other objects- - - - -	19	19	17	18
9. Ventilating - - - - -	11	7	8	3
10. Overhauling - - - - -	34	6	11	8
11. Rescue Work - - - - -	58	13	142	9
12. Locating Fire - - - - -	9	5	23	1
13. Directing Operations- - - - -	7	3	2	1
14. Controlling refrigeration break - -	3	0	1	0
15. Servicing or operating apparatus- -	13	6	4	2
16. Inspection work - - - - -	10	4	10	0
17. Involved in vehicular collision - -	11	4	3	0
18. Getting on or off apparatus - - -	23	3	81	7
19. Ascending or descending - - - - -	22	8	0	0
20. Sliding down pole - - - - -	2	1	10	1
21. Exercising- - - - -	16	8	18	2
22. Performing duties allied to cooking	20	14	11	3
23. Not otherwise classified- - - - -	19	25	93	31

How Injury Occurred

1. Struck against- - - - -	109	26	83	9
2. Stepped on- - - - -	11	12	44	3
3. Struck by - - - - -	55	30	39	22
4. Caught in, on, or between - - - - -	27	12	17	4
5. Tripped, slipped, or fell - - - - -	113	31	186	45
6. Lifting or moving - - - - -	123	26	275	53
7. Overexertion - - - - -	26	12	35	2
8. Wetting - - - - -	2	1	7	1
9. Exposure to temperature extremes- -	0	1	3	1
10. Inhalation- - - - -	0	7	4	2
11. Irritation- - - - -	1	7	13	3
12. Absorption- - - - -	1	2	2	0
13. Contact-electrically charged objects	0	1	1	1
14. Contact-heated objects and heated water	2	0	5	1
15. Grasped - - - - -	4	1	4	2
16. Explosions- - - - -	0	3	0	0
17. Backdrafts- - - - -	1	2	0	0
18. Not Otherwise classified- - - - -	20	9	31	19

Administration

1987-88

1988-89

Part or Parts of Body Injured

	With LWDs	Without LWDs	With LWDs	Without LWDs
1. Eye- - - - -	11	11	16	10
2. Head - - - - -	11	6	15	5
3. Neck (except respiratory system) -	124	12	78	17
4. Shoulder - - - - -	42	9	73	19
5. Arm- - - - -	16	6	23	8
6. Elbow- - - - -	18	5	26	9
7. Wrist- - - - -	11	1	16	3
8. Hand - - - - -	53	32	80	23
9. Back - - - - -	179	26	242	25
10. Leg- - - - -	16	4	24	6
11. Knee - - - - -	60	13	90	15
12. Ankle- - - - -	30	4	42	10
13. Foot - - - - -	14	10	45	15
14. Trunk- - - - -	10	9	14	13
15. Respiratory system - - - - -	7	8	25	21
16. Chest pains- - - - -	14	4	20	10
17. Not otherwise classified - - - - -	11	24	19	32

Nature of Injury

1. Burns and Chemical Burns except eyes	9	6	13	2
2. Burns, eyes- - - - -	2	1	3	1
3. Foreign body in eye or eye irritation	9	16	13	5
4. Strains-sprains- - - - -	248	72	371	22
5. Bruises and contusions - - - - -	33	23	50	7
6. Hernias- - - - -	3	2	1	0
7. Lacerations- - - - -	27	10	40	4
8. Punctures- - - - -	8	3	12	9
9. Dislocations - - - - -	11	2	16	1
10. Fractures and suspected fractures-	13	3	20	3
11. Respiratory system and smoke inhalation	4	5	6	2
12. Dermatitis (skin disorder) - - - -	2	4	3	2
13. Cardio-vascular- - - - -	13	8	23	8
14. Not otherwise classified - - - - -	10	16	42	11

MERITORIOUS COMMENDATIONS

In 1988-89, the Fire Commission accepted the recommendations of the Merit Advisory Board and the Chief of Department concerning acts of heroism performed by the following Department members during the period November, 1987 through April, 1989:

Class "A" Award

Firefighter Patrick W. Buddington

Class "B" Award

Captain Dominic M. Spinetta
Lieutenant Frank Cercos III
Firefighter Michael R. Ahumada
Firefighter Gary S. Barisone

Firefighter Jeffrey M. Byrne
Firefighter James D. Isola
Firefighter Ronald L. Parker
Firefighter Dennis J. Petty

Class "C" Award

Lieutenant Robert A. Fennell
Lieutenant Gary S. Leal
Lieutenant Francis J. Lowe
Lieutenant Daniel J. Murphy
Lieutenant David R. Rege
Chief's Aide James B. Fex
Firefighter Louis F. Bacciocco
Firefighter John G. Beckerley
Firefighter John S. Cercos
Firefighter Stephen C. Christensen
Firefighter Thomas J. Collins
Firefighter Theodore J. Corporandy

Firefighter Michael J. Creedon (1)
Firefighter Christopher A. Diaz
Firefighter Austin M. Dito
Firefighter Michael Fauss
Firefighter Paul M. McHugh
Firefighter Ruben A. Moten
Firefighter Milton J. Panagotacos
Firefighter Stephen F. Parrott
Firefighter George F. Pidge
Firefighter John H. Reed
Firefighter Joseph E. Sorensen

Class "D" Award

Lieutenant David O. Wormell

There were 10 Unit Citations and 70 Letters of Commendation awarded to uniformed members during this period. Additionally, 11 civilians received Certificates of Merit.

SAN FRANCISCO FIRE FIGHTERS 1988 TOY PROGRAM

The San Francisco Firefighters Toy Program marked its 38th year in 1988. The Toy Program is sponsored by San Francisco Fire Fighters' Local 798. Off-duty and retired firefighters and their families volunteered over 5,000 hours to the Toy Program with the hope of making Christmas happier for San Francisco's needy children.

This year, the San Francisco Firefighters Toy Program was the most successful to date in terms of donations and children receiving toys. The San Francisco Firefighters distributed an estimated 100,000 toys to 19,044 needy children in San Francisco. This figure is comprised of 11,038 children in 4,416 family situations, and 8,006 children in special situations such as homeless in shelters; children with AIDS; children of parents in prison; children hospitalized with cancer.

This represents a 42.39% increase in children who received toys through the normal process and a 334.50% increase in children in special situations.

The San Francisco Firefighters rely on donations from organizations and private individuals for the success of its annual Toy Program. The retail value of new toys donated by toy companies throughout the Bay Area was in excess of \$800,000. The 9th Annual Christmas Carol Charity Run, a business-sponsored event, netted an estimated \$18,000 donation to the Toy Program. Private contributions totalled \$22,872.

A child's heart believes in dreams. From San Francisco Firefighters' Local 798, our sincere thanks to each and everyone of you for helping us help the kids and making Christmas dreams come true.

F.L.A.M.E.

During 1988-89 the San Francisco Fire Department's Fire League of Athletic and Musical Events (FLAME) Program provided more activities to more children of this area than ever before. During its nineteenth year FLAME offered the opportunity to over 4,000 boys and girls to participate in various baseball, soccer, and basketball programs.

Additionally, we continue to make it possible for handicapped children in San Francisco to enjoy many outings and activities which would be otherwise unavailable to them.

These efforts are largely made possible through the continued generosity of the members of the San Francisco Fire Department, both active and retired.

PIONEER MEMORIAL MUSEUM ST. FRANCIS HOOK AND LADDER SOCIETY

The St. Francis Hook & Ladder Society sponsors the San Francisco Fire Department's Pioneer Memorial Museum. The Museum is open to the public with free admission Thursday through Sunday from 1:00 to 4:00 p.m. and is located adjacent to Station 10. Volunteer docents, furnished by the Society and City Guides, welcomed 3,249 visitors during the year.

The St. Francis Hook & Ladder Society is a non-profit California corporation which is empowered to accept, on behalf of the Fire Commission, gifts to the Museum. If such gifts are monetary, the Society uses the money for the preservation, restoration and maintenance of apparatus, artifacts, and memorabilia of the collection.

During 1988, off-duty firefighters of the Department represented the San Francisco Fire Department in grand fashion at Firemen's musters in Virginia City, Nevada; Turlock, Auburn and Santa Cruz, California. The St. Francis Hook and Ladder Muster Team won the California Fireman's Muster Association's Class I State Championship Hand Engine award with the Museum's 1856 Button "Emperor Norton No. 1" machine.

At the Society's annual meeting, the first Honorary Life Memberships were presented to Louise Davies,,Dr. Lester F. Bulloch, Chief Emeritus William F. Murray and retired Deputy Chief Gerald Cullen.

During the year, the membership of the Society donated 8,540 hours of service to the Department as sponsors of the Museum.

The year ended on a sad note as Doc Bulloch, who was instrumental in the preservation of the "Little Giant" gold hydrant at 20th and Church Streets, passed away on April 27, 1989 after a short illness.

STRESS UNIT

The San Francisco Fire Department Stress Unit/EAP (Employee Assistance Program) has been in operation for two-and-a-half years. This successful program is based on confidential peer counselling. It provides a confidential, objective, non-judgmental assistance environment where firefighters and their families can come for support, advice and professional referral in resolving personal and job-related problems; problems which often impair job performance and efficiency.

Stress, whether incurred by traumatic incident, family troubles, alcohol, and/or drug abuse, decreases the firefighter's effectiveness and endangers the firefighter and the community.

The Stress Unit's primary concern is the mental and emotional well-being of the firefighter involved. The Stress Unit provides absolutely confidential help for any member of the Department or their family. It does not function as an administrative disciplinary unit.

The unit currently consists of three full-time firefighter peer counsellors and is assisted by an eleven member Stress Unit committee that represents every rank in the Department and tries to reflect the ethnic diversity of the San Francisco Fire Department. The committee acts as a liaison between the Stress Unit and the Department Administration.

The Stress Unit has become more and more involved in counseling after traumatic incidents. The Stress Unit Committee is continuing its work in the formation of critical incident response teams.

Confidential peer counseling has proven to be a very successful approach to the problems our firefighters are experiencing. Many firefighters and their families have been helped by this Unit, and this has improved job performance.

OFFICE OF EMERGENCY SERVICES

The San Francisco Administrative Code delineates the duties of the Director, San Francisco Office of Emergency Services (OES), and in so doing provides implied responsibilities of day-to-day office operations. These operations focus on emergency planning coordination and inter-face with City departments and agencies as well as working with the private sector elements which have emergency responsibilities. The office also responds to inquiries from private sector business and individuals regarding emergency disaster awareness and preparedness. The office has an assigned staff of two, a Director and an Emergency Planning Coordinator.

Since the OES meets and maintains specific state and federal emergency planning criteria, federal emergency management assistance reimbursement funds are received by the City. The office is a separate budget element within the overall fire department budget. A separate budget is maintained to facilitate the tracking of daily operational expenditures and for the preparation of quarterly claims for the eligible emergency management assistance reimbursement funds.

In addition to its emergency planning role, the OES by Board of Supervisors Resolution, is the authorized agent for the City and County of San Francisco to administer the interaction with the California State Department of General Services, Office of Surplus Property for purchase of hardware and equipment by City departments.

To assist and strengthen the OES's emergency capability, a volunteer military reserve element called "Individual Mobilization Augmentee" is assigned to the Office of Emergency Services. This element and the activities provided to the City are at no cost to the City. The management of the program is provided in concert with the State Office of Emergency Services and the Federal Emergency Management Agency.

In order to accomplish its specific and implied responsibilities, the office maintains representation on committees and boards of both the public and private sectors which have goals and objectives for emergency disaster planning. These organizations include the City Seismic Investigation and Hazards Survey Advisory Committee; Bay Area Regional Earthquake Preparedness Project; Policy Advisory Board; City Unreinforced Masonry Building Task Force; San Francisco Emergency Medical Care Committee; the San Francisco Chamber of Commerce Crime Prevention and Safety Committee; and the San Francisco Bay Area Business, Government and Red Cross Disaster Conference Steering Committee.

During the period, the OES office prepared and made distribution of new annexes to the City Emergency Operations Plan to governmental and private sector holders of the City plan. The new plan has been completed and ninety-nine percent has been distributed with the last one percent awaiting receipt from the printers.

The office coordinated, supervised and participated in the annual San Francisco Earthquake Awareness Week Program. A joint U.S. Navy, San Francisco Fire Department, San Mateo Fire Department and P. G. & E. firefighting and emergency electrical supply exercise was one of the major highlights of the program.

In addition to the above activities, the OES staff participated in the following activities:

- Presented 45 disaster preparedness lectures to 1,368 attendees.

- Mailed 191 disaster preparedness literature packets to requesting San Francisco citizens.

- Participated in 16 local, national and international news media interviews.

- Attended 8 disaster preparedness conferences, seminars and workshops.

- Responded to 22 third-alarm and greater fires in order to provide a mobile command post and expanded communications capability, when needed.

FIREFIGHTING AND RESCUE SERVICES

The Suppression Forces provide protection to 738,700 citizens residing in the 49 square miles of San Francisco. During the business day, this number increases to approximately one-and-a-half million. The Suppression forces consist of 41 engine companies, 18 truck companies, 2 rescue squads, a fireboat and other special purpose units. The companies are organized in three divisions which are further divided into 10 battalions. A fourth division comprised of 3 firefighting companies is located at San Francisco International Airport.

During fiscal year 1988-89, Suppression units responded to 58,178 incidents, an increase of 11.2% over the previous fiscal year. This increase was largely due to the demand for emergency medical services. There were 26,031 responses for first-aid or resuscitation.

The emergency medical capabilities of the Suppression Forces were enhanced this year by the introduction of semi-automatic defibrillators on the engine companies and rescue squads. The implementation of this program began in November, 1988, and 817 firefighters were trained and 42 defibrillator units were in-service by June 30, 1989. Much of the training was accomplished through the volunteer efforts of the City's medical and paramedical community. During this fiscal year, the Department also instituted a program to systematically upgrade the medical skills of its firefighters from the first-responder level to EMT-FS.

Fire Prevention activities of the Suppression forces center around the Commercial Residential Inspection Safety Program (CRISP) and the Home Safety Survey. Last fiscal year, the suppression forces inspected nearly 13,000 buildings under these two programs. Besides identifying and abating hazards found during inspections, fire suppression companies are able to formulate pre-fire plans for the inspected buildings.

The primary responsibility for in-service training of Suppression firefighters is given to the company officers. The Bureau of Training supplements this training and also evaluates the performance of individual fire companies and firefighters. In addition, designated officers, in cooperation with the Bureau of Training, provide training in specialized areas, such as Hazardous Material incident response, BART and MUNI Metro underground firefighting and rescue, high-rise building firefighting, wildland firefighting, and surf and cliff rescue.

The following is a recapitulation of Fire Department response from 1983-84 to 1988-89 and a comparison of the number of incidents by type for 1987-88 and 1988-89.

FIREFIGHTING AND RESCUE SERVICES

Recapitulation of Fire Department Response:

	<u>83-84</u>	<u>84-85</u>	<u>85-86</u>	<u>86-87</u>	<u>87-88</u>	<u>88-89</u>
Total Fire	6,356	7,132	6,709	6,267	6,212	5,920
False Alarms	11,187	10,541	10,266	9,469	8,265	9,046
Emergency Other						
than Fire	19,564	21,516	26,075	28,762	37,855	43,212
(Resuscitations)	(1,283)	(1,776)	(1,724)	(1,525)	(1,497)	(1,295)
Total Alarms	37,107	39,189	43,050	44,498	52,332	58,178
Major Alarms	72	59	69	68	71	92

Summary of Incidents by Type

	<u>87-88</u>	<u>88-89</u>
<u>Fires</u>		
Unknown Type Fire- - - - -	4	3
Building Fire- - - - -	2,540	2,307
Trees, Brush, Grass- - - - -	471	543
Vehicle Fire - - - - -	1,234	1,155
Refuse Fire- - - - -	1,778	1,748
Outside Structure- - - - -	112	89
Explosion- - - - -	2	2
Outside Spill/Leak - - - - -	-	-
Mobile Home- - - - -	1	-
Other Fire - - - - -	70	73
<u>TOTAL</u>	<u>6,212</u>	<u>5,920</u>

False Alarms

Malicious/Mischief - - - - -	6,390	6,627
Bomb Scare, No Bomb - - - - -	34	20
System Malfunction - - - - -	1,112	1,423
Unintentional- - - - -	729	976
<u>TOTAL</u>	<u>8,265</u>	<u>9,046</u>

Emergency Other Than Fire

Rescue Calls

Resuscitation-Positive - - - - -	588	467
Resuscitation-Negative - - - - -	809	828
First Aid- - - - -	20,757	24,736
Rescue/Extrication - - - - -	107	125
Potential Jumper - - - - -	37	34
Elevator/Escalator - - - - -	419	532

Rescue Calls (Cont)

87-89 88-89

Trapped in Auto- - - - -	169	187
Cliff/Landslide- - - - -	16	25
Aircraft Incident- - - - -	2	2
Drowning - - - - -	14	12
<u>TOTAL</u>	<u>22,918</u>	<u>26,948</u>

Overpressure

Steam Rupture- - - - -	36	58
Air/Gas Rupture- - - - -	129	173
Water Heater/Boiler- - - - -	74	139
<u>TOTAL</u>	<u>239</u>	<u>370</u>

Hazard Conditions

Washdown Blood - - - - -	46	58
Washdown Gas/Oil, etc. - - - - -	1,249	1,113
Explosive Removed- - - - -	5	16
Excessive Heat - - - - -	248	248
Power Lines Down - - - - -	118	99
Arc/Short Electric - - - - -	454	450
Refrigeration Leak - - - - -	3	10
Smell of Natural Gas - - - - -	7	17
Building Collapse- - - - -	3	6
Aircraft Alert - - - - -	89	89
<u>TOTAL</u>	<u>2,222</u>	<u>2,105</u>

Good Intent Calls

Smoke Scare/Smell- - - - -	515	533
Wrong Location - - - - -	27	53
Control Burn - - - - -	17	23
Alarm Bell Ringing - - - - -	3,213	3,647
Recall/No Service- - - - -	1,987	1,564
<u>TOTAL</u>	<u>5,759</u>	<u>5,897</u>

Service Calls

Cover a Window - - - - -	285	417
Lock-Out/Lock-In - - - - -	820	826
Water Removal- - - - -	966	1,180
Smoke/Odor Removal - - - - -	443	536
Animal Rescue- - - - -	13	40
Assist Police- - - - -	313	340
Broken Hydrant - - - - -	228	367
Boat Sinking - - - - -	7	14
Loose Structure- - - - -	83	88
Broken Sprinkler - - - - -	74	85
<u>TOTAL</u>	<u>3,232</u>	<u>3,793</u>

<u>Hazardous Material Spill</u>	<u>87-88</u>	<u>88-89</u>
Unknown- - - - -	22	29
Explosives - - - - -	6	9
Compressed Gas Leak- - - - -	190	99
Flammable Liquid Spill/Leak- - - - -	3	191
Flammable Solids - - - - -	3	5
Oxidizing/Organic Peroxides- - - - -	2	3
Poisons- - - - -	1	2
Radioactive Material - - - - -	9	2
Corrosions - - - - -	40	9
Other Regulated Material - - - - -	40	55
<u>TOTAL</u>	403	404

Miscellaneous Calls 3082

Fires - Source of Heat of Ignition

Heating Systems- - - - -	154	125
Cooking Equipment- - - - -	894	902
Air Conditioning Equipment - - - - -	25	19
Electrical Distribution Equipment- - - - -	460	413
Electrical Appliances- - - - -	108	117
Special Equipment- - - - -	351	268
Processing Equipment - - - - -	14	10
Service Equipment- - - - -	33	37
Other Objects- - - - -	3,930	3,734
Undetermined - - - - -	246	298

Fires - Type of Material Ignited

Gas- - - - -	48	41
Flammable Liquid - - - - -	648	552
Volatile Solid - - - - -	352	333
Chemical-Metal-Plastic-Paint - - - - -	219	214
Natural Product- - - - -	1,233	1,265
Fabric-Textile Fur - - - - -	660	597
Material with Oil- - - - -	39	41
Other- - - - -	116	118
Undetermined - - - - -	233	274
Wood-Paper - - - - -	2,667	2,483

Fires - Number and by Property Class

Public Assembly		
Amusement-Fixed - - - - -	17	6
Amusement-Variable- - - - -	4	2
Churches- - - - -	6	10
Libraries, Courts - - - - -	6	6

Fires - Number and by Property Class

87-88 88-89

Public Assembly (Cont)

Eating, Drinking- - - - -	98	73
Terminals, Station- - - - -	14	12
Theaters- - - - -	4	6
Clubs - - - - -	1	8

Educational

School, Non-Resident- - - - -	24	23
Business Schools- - - - -	2	1
Universities- - - - -	3	1
School, Residential - - - - -	1	0
Unclassified- - - - -	1	2

Institutional

Care of the Aged- - - - -	15	6
Care of the Young - - - - -	3	1
Sick or Injured - - - - -	42	31
Physical Restraint- - - - -	6	6

Residential

One & Two Family- - - - -	505	514
Apartments- - - - -	1,366	1,251
Rooming House - - - - -	1	1
Hotel - - - - -	169	121
Motel - - - - -	1	2
Dormitory - - - - -	2	5
Mobile Home - - - - -	1	1
Other - - - - -	1	-

Store & Office

Food, Beverage- - - - -	14	20
Textile, Clothing - - - - -	14	8
Household, Repair - - - - -	6	3
Specialty - - - - -	11	17
Recreation- - - - -	8	9
Professional- - - - -	15	10
Motor Vehicle - - - - -	6	9
General Item- - - - -	6	8
Offices - - - - -	88	96

Basic Industry

Communications- - - - -	2	0
Utilities - - - - -	48	40
Agriculture - - - - -	1	1
Forestry- - - - -	2	2
Mineral Products- - - - -	2	2
Laboratories- - - - -	2	3

	87-88	88-89
Manufacturing		
Food- - - - -	7	12
Beverage, Tobacco - - - - -	1	1
Textiles- - - - -	2	0
Wearing Apparel - - - - -	3	5
Wood, Paper - - - - -	24	17
Chemical- - - - -	1	2
Metal - - - - -	5	9
Vehicle - - - - -	4	5
Other - - - - -	10	3
Unclassified- - - - -	4	2
Storage		
Textile - - - - -	-	-
Food, Tobacco - - - - -	2	2
Petroleum, Alcohol- - - - -	-	-
Wood, Paper - - - - -	3	3
Chemical, Plastic - - - - -	9	1
Metal - - - - -	9	3
Vehicle - - - - -	18	12
General - - - - -	65	34
Agriculture-- - - - - -	2	0
Unclassified- - - - -	-	-
Special Properties		
Construction- - - - -	38	16
Special Structures- - - - -	10	14
Outdoor - - - - -	483	559
Road- - - - -	1,750	1,723
Equipment Areas - - - - -	4	3
Railroad- - - - -	-	1
Aircraft Areas- - - - -	-	1
Water Areas - - - - -	1	1
Unclassified- - - - -	0	0
Mobile Property		
Road-Passenger- - - - -	1,135	1,056
Road-Freight- - - - -	104	112
Rail Transport- - - - -	2	0
Water Transport - - - - -	4	3
Air Transport - - - - -	1	1
Heavy Equipment - - - - -	5	3
Special Vehicles- - - - -	2	0
Unclassified- - - - -	1	5

DIVISION OF AIRPORTS

Approximately 76 million people pass through San Francisco International Airport annually and receive protection from the San Francisco Fire Department Airport Division (Division Four).

The Division consists of sixty-seven (67) uniformed personnel assigned at San Francisco International Airport. Division Four staff includes an Assistant Chief (Division Head), Operations Officer and a secretary. Staff duties include budget preparation, preparation of specifications and purchasing of equipment.

Three (3) airport companies provide fire protection and suppression.

Airport Company 1, located in Fire Station 1, is an Aircraft Rescue & Firefighting (ARFF) company, consisting of two (2) ARFF units and a Rescue Boat.

Airport Company 2, located in Fire Station 2, is an Aircraft Rescue and Firefighting (ARFF) company, consisting of two (2) ARFF units.

Airport Company 3, located in Fire Station 1, is a structural company, consisting of an engine, truck and medical response unit.

A Deputy Fire Marshal and a Fire Safety Inspector provide code enforcement, plan checking, inspections, and training in portable fire extinguishers and earthquake preparedness to civilian airport personnel. Approximately 140 airport building inspections were conducted by suppression personnel as part of a continual fire prevention program.

Training is an important factor in the Division's responsibilities. In addition to regularly scheduled San Francisco Fire Department drills and special airport drills, three (3) unannounced (surprise) "RED CAP" drills are held each month. These drills are primarily drills related to simulated aircraft emergencies, but other scenarios addressed are hazardous materials, medical and water rescue events.

In 1988, the Fire Commission and Chief of Department awarded Unit Citations to all three Airport Companies for their expertise and dedication; and for the ninth consecutive year, San Francisco International Airport received the Aviation Safety Institute Award for the Crash/Fire/Rescue and Medical Preparedness Programs.

AIRPORT RESPONSE STATISTICS - 1988-89

Aircraft Incidents	114
Brigades (Panel Alarms/Good Intent)	528
Building Fires	14
Code 10 (Bomb Threats)	22
Elevators/Escalators	255
Fuel Spills	189
Grass/Trash Fires	26
Medical Alarms	1,048
Vehicle Incidents	53
Water Rescues	<u>2</u>
TOTAL	2,251

HAZARDOUS MATERIALS

To meet the potential hazard posed by the increased usage of toxic and otherwise hazardous materials, the San Francisco Fire Department placed into service a Hazardous Materials Response Unit on October 1, 1982.

The Hazardous Materials Response Unit (Haz Mat 1) is quartered at Fire Station 36. The Hazardous Materials Response Team consists of the members of Engine Company 36, supported by the members of Rescue Squad 1 and Rescue Squad 2, and emergency operations are coordinated by the Chief Officers of Battalion 2. Further support is given to the unit by inspectors from the hazardous materials permit section of the Fire Prevention Bureau, industrial hygienists and environmental health inspectors from the Department of Public Health, and the Coast Guard.

During the year, the team responded to incidents involving asbestos, spills of unknown powders, reacting chemicals, and large fuel spills in buildings. It is not necessarily the quantity released that determines the severity of a hazardous materials incident, but the hazards presented and the system impacted that are of concern.

The Hazardous Materials Unit has been outfitted with identification equipment, hazard assessment equipment, personnel protective equipment, and control and containment equipment.

Training for personnel this year has included in-house training and the completion of the 200-hour Hazardous Materials classes for all members of Station 36. Thirty members of the Fire Department are certified Hazardous Materials Technicians.

HIGH-RISE TRAINING PROGRAM

Most high-rise buildings in San Francisco are located in one section of the City. Members who work in other areas seldom experience the required strategy and tactics for high-rise buildings. The aim of the High-Rise Training Program is to keep all members of this department abreast of the San Francisco Fire Department procedures for high-rise buildings.

In cooperation with our business community, the San Francisco Fire Department uses private buildings to train its members in "High-Rise Procedures." Different buildings are used, mostly on weekends, for these orientations. The orientations stress the procedures that are applicable to high-rise buildings.

Firefighting units in the high-rise areas conduct ongoing inspections and familiarization tours of high-rise buildings. Battalion Chiefs in the high-rise areas conduct a thorough inspection of at least one high-rise building each month.

BAY AREA RAPID TRANSIT AND MUNI METRO TRAINING

The objective of the BART/MUNI METRO Liaison Committee continues to be two-fold: to conduct training exercises with both rail systems and to meet regularly with representatives of these rail systems, the California Public Utilities Commission (CPUC) and other Fire Departments with similar concerns.

As with any training, the main objective is to familiarize the members of the Department with the surroundings in which they will operate and with the environment they may encounter. With that in mind, three Training Exercises were conducted in the Trans-bay Tube in conjunction with the Oakland Fire Department and BART. An additional five Training Exercises were conducted with MUNI/METRO, four in Twin Peaks Tunnel and one in the underground area between Van Ness and Church Street stations. All of these were full-scale drills with equipment brought to the scene, hose lines laid and water discharged.

Our meetings with BART, the CPUC and other Fire Departments to improve the safety of the System continue to show progress. This year, monies have been made available to provide a wet standpipe system throughout the subway system, both here and in the East Bay. Engineering and design work are now in progress. It will be some time before the entire standpipe system is fully operational throughout the BART System, but the project has started.

MUTUAL AID

With increased demand for mutual aid in California, and with the vulnerability of San Francisco to a major conflagration or disaster, the San Francisco Fire Department has been streamlining and updating its OES Mutual Aid Program.

During this year, the Department has been working with the Bay Area Counties and the State Office of Emergency Services. Working with these agencies, the Department has upgraded its Mutual Aid System for the use of Firefighting Strike Teams, Hazardous Material Units, as well as other specific resources.

The training program for the OES, Mutual Aid Program, was accelerated this year. One hundred and fifty firefighters and officers were trained in the Mutual Aid System and Wildland Safety. Twelve Chief Officers and Captains were trained as Strike Team Leaders. Two Strike Teams from the Department were sent to a massive wildland training exercise in Woodside.

This year, the OES Unit assigned to the S.F.F.D. responded to numerous wildland fires in the state. A strike team of six San Francisco Fire Department units responded to a fire in San Carlos, and the Hazardous Materials Unit responded to an incident in East Palo Alto.

A strike team from North San Mateo County responded to San Francisco for our Earthquake Training Exercise, where they worked hand-in-hand with San Francisco Fire Department units. The Department is now in the process of upgrading its procedures for the use of outside strike teams responding into the City.

BUREAU OF FIRE PREVENTION

The Bureau of Fire Prevention authorized personnel strength during fiscal year 1988-89 was eighteen civilian and twenty uniformed inspectors. In addition, the Bureau has two fire protection engineers and six clerical positions. Seven uniformed officers are assigned to the Bureau to provide supervision and management.

Inspection programs for high-rise buildings, institutions, schools and pre-schools continue to meet all objectives of the Bureau of Fire Prevention. Recently the Fire Department hired a Management Information Specialist who will work with the Bureau in developing programs which will enhance our data base and increase our ability to use information entered into the system.

The Bureau of Fire Prevention has instituted a Reinspection Fee Program which was authorized by the Board of Supervisors last September. At the present time, about 90 reinspections are conducted each month. This will generate approximately \$60,000 each year. This year, it is anticipated that the Bureau will collect, through fees and assessments, about 50% of its 3 million dollar annual budget.

Inspections

Major Inspection Activities Of The Bureau of Fire Prevention 1988-89:

Annual (excluding High Rise)	1,203
Annual High Rise	8,000
BBI Referral Inspections	18,908
Complaint Inspections.	6,486
Department of Public Health Referrals.	1,011
Follow-up Inspections.	6,397
Permit Inspections	777
State Fire Marshal Referral.	1,656

The total number of inspections conducted by members of the Bureau of Fire Prevention during the last fiscal year was 49,852.

CODE DEVELOPMENT

The use of the same model code for both City and State building safety and handicapped requirements will become effective during the coming year.

On July 1, 1989, the State of California adopted the 1988 Uniform Building Code with amendments which is known as the California Building Code. Effective July 1, 1989 the Bureau of Fire Prevention personnel are enforcing those provisions of the California Building Code which have been adopted by the State Fire Marshal.

The Bureau has worked with the San Francisco Chamber of Commerce Code Committee and the Bureau of Building Inspection in drafting amendments to the 1988 Uniform Code. That Code will be known as the San Francisco Building Code and is scheduled for adoption on January 1, 1990.

The Bureau of Fire Prevention will adopt the 1988 Uniform Fire Code with amendments which will be known as the San Francisco Fire Code. At the present time the proposed Code is being reviewed by the City Attorney's office. It is anticipated that the Code will be presented to the Fire Commission this Fall and become effective on January 1, 1990.

Plan Checking

The Bureau of Fire Prevention has six members, under the supervision of a Lieutenant, who are assigned to check planned alterations and new construction for compliance with laws and ordinances related to egress, fire protection and fire spread control.

The Bureau of Fire Prevention and the Bureau of Building Inspection have established standing committees to review enforcement policies and to develop parameters for design of required life safety components of buildings. These committees meet with the public and solicit their input to solve enforcement and procedural problems. Since such meetings have been held, problems involving plan checking have diminished.

The Fire Department's plan checking fees have generated approximately \$480,000 during fiscal year 1988-1989. This is sufficient to defray the cost of the entire plan checking operation. In addition, about \$120,000 has been collected to defray the cost of inspections generated by the issuance of building permits. This new revenue source is expected to increase when the Bureau's computer is programmed to track Bureau of Building Inspection referrals.

High-Rise Inspection Program

The State of California mandates that all regulated high-rise buildings be inspected annually. The Bureau of Fire Prevention's high-rise inspection team inspected 434 high rises during fiscal year 1988-89. These inspections generated \$358,974.06 which defrayed the cost of these inspections.

As a result of annual inspections, the Bureau has developed a relationship with building owners and managers which increases their awareness of fire-related problems and consequently the safety of the people who utilize such structures. The inspections conducted by inspectors assigned to this program are primarily concerned with maintenance of fire resistant construction, maintenance of fire protection systems (including suppression systems), general housekeeping, hazardous conditions caused by unsafe activities or storage of materials both flammable and hazardous, maintenance of exits, and emergency planning. As the buildings equipped with life-safety systems become older, it is increasingly important that all the components of the Life-Safety Program be inspected and tested periodically. The only way to insure the maintenance of such equipment is through frequent inspections.

FIRE SUPPRESSION INSPECTION PROGRAMS

The Commercial Residential Inspection Safety Program (CRISP) is an inspection program performed by Fire Suppression personnel and is targeted primarily at businesses and large residential buildings. Large industrial buildings exceeding 100,000 square feet, properties classified as high-rise buildings, and single and dual family dwellings, are excluded from this program. Family dwellings, however, are inspected by Fire Suppression personnel under the Home Safety Survey Program as discussed later in this section. In fiscal year 1988-89, Fire Suppression companies inspected 10,030 buildings under the program.

CRISP is designed not only to identify and classify buildings for computer data storage and retrieval, but also to enable first-due companies to identify hazards and prepare pre-fire plans. When Fire Suppression companies identify hazardous conditions, they issue a "Notice of Violation" and set a time limit for abatement of the hazard.

The Bureau of Fire Prevention is responsible for record keeping and screening all forms for compliance with any and all applicable codes, ordinances and regulations. In addition to this, the inspector assigned to the program serves as liaison between the Fire Suppression and Fire Prevention personnel.

A year by year recapitulation of CRISP since it's inception is as follows:

<u>Year</u>	<u>Inspections</u>	<u>Violations</u>	<u>Corrections</u>	<u>Percent</u>
1977-78	2,363	188	153	81.4%
1978-79	7,775	604	565	93.5%
1979-80	11,477	1,175	928	79.0%
1980-81	10,408	827	570	68.9%
1981-82	5,937	880	561	63.8%
1982-83	7,702	874	809	83.1%
1983-84	11,247	641	450	70.2%
1984-85	11,040	841	637	75.7%
1985-86	10,659	470	349	74.3%
1986-87	14,804	507	318	63.0%
1987-88	10,351	440	238	54.0%
1988-89	10,030	459	250	53.0%

The Home Safety Survey Program is carried out by the Fire Suppression companies to identify hazards in family dwellings. The effectiveness of the program relies upon the cooperation of the home dwellers, as it is with their consent and participation that inspections are made. When their consent is granted, Fire Suppression personnel inspect the homes for hazards such as stored rubbish, flammable liquids, eletrical wiring and heating hazards. With the cooperation of the home dwellers, any hazards identified are abated.

During the past fiscal year, Fire Suppression personnel approached 9,009 homes and were granted permission to inspect 2,883 of these homes.

SCHOOL INSPECTION PROGRAM

There are 149 schools in San Francisco including children's centers and private schools.

The responsibility of the Bureau of Fire Prevention is to make on-site fire safety and other hazardous inspections of school structures and premises; inspect and witness testing of fire alarm systems and sprinkler systems; perform inspections relating to the storage, handling, and dispensing of flammable liquids and other hazardous materials.

The inspector investigates fire hazard complaints; recommends corrective action; reviews plans and specifications of proposed building alterations; inspects fire protection systems, fire exits; confers with architects, engineers and contractors to insure that reasonable life safety measures exist.

A monthly School Inspection Program has been implemented which requires middle and elementary schools to be inspected by fire companies conducting monthly fire drills. High schools are inspected by Battalion Chiefs. The completed inspection reports are submitted to the Bureau of Fire Prevention.

PUBLIC EDUCATION UNIT

The Public Education Unit continues to implement its Fire Safety Program addressing the City's large senior citizen population. Fire and earthquake programs were presented to senior citizens at community and association meetings; Housing Authority buildings; Senior Centers; hospitals and other sites.

Programs to educate the public on hotel safety; high rise evacuation and relocation; hospital employee safety; safety tips for babysitters; use of fire extinguishers; and special programs for children were presented throughout the city.

Our annual Fire Prevention Day at the San Francisco Zoo was very successful. This year's theme, "A Sound You Can Live With! Test Your Detector," was presented to approximately 7,000 people. Visitors were treated to a display of fire apparatus from the San Francisco Fire Department Toy Detail, Brisbane Fire Department, and California Division of Forestry. Fire and Earthquake Safety information was presented to all visitors. A surprise visit from Smokey the Bear highlighted the day.

HIGH-RISE FIRE SAFETY DIRECTOR PROGRAM

The Bureau of Fire Prevention is responsible for the curriculum and the proper execution of the Fire Safety Director courses taught at the downtown Community College Center. Programs are conducted throughout the school year. Each course is primarily designed and directed toward high-rise building owners, managers and chief operating engineers and is conducted over a period of nine weeks for a total of 27 hours. The final examination is the creation of a Building Fire and Life Safety Plan which is reviewed and approved by the officers of the Fire Prevention Bureau.

The Bureau conducts programs to assist Fire Safety Director graduates in initiating Fire and Life Safety Education programs at their high-rise buildings and monitors their exit drills as required by the San Francisco Fire Code.

FIRE INSPECTOR TRAINING

Fire Inspectors receive approximately 12 hours of recurrent proficiency training at Headquarters each month.

Additionally, selected district inspectors and specialists attend specialized courses in Codes and Regulations, Hazardous Materials, Hospital and Institutional Occupancies, Public Education Programming, Plan Checking and Fireworks.

This fiscal year, our Bureau Training Manager completed all the State courses required to teach all our inspectors the subjects necessary to be certified by the State Board of Fire Services in Fire Prevention. All inspectors will be certified by the fall of 1990.

The Bureau's personnel participate in monthly meetings of the Fire Prevention Officers section of the California Fire Chief's Association.

FIRE MARSHAL - SAN FRANCISCO INTERNATIONAL AIRPORT

The Airport Fire Marshal and his staff conduct annual inspections of all structures located at the San Francisco International Airport; attend monthly meetings on Safety and Emergency response plans; monitor hazardous activities; inspect storage facilities for hazardous chemicals, including flammable and combustible liquids. In addition, the Fire Marshal conducts fire safety classes for airport personnel.

Another function of the Airport Fire Marshal and his staff is to check plans for alterations to existing structures and of new buildings. The 102 million dollar airport renovation project is nearing completion. Items scheduled under this project include the removal of the above ground fuel tanks at the south tank farm, renovation of the fuel system and sprinkler installation within tenant space.

New Projects Proposed for the Coming Year

A new firehouse, the complete renovation of piers A & B and the construction of pier G are construction projects in which the Airport Fire Marshal's office will be involved in the coming year. We review all plans for alterations and new construction to insure compliance with applicable code provisions for exiting and fire-spread control and monitor the ongoing hazardous activities associated with the Airport to assure that they are performed in a safe and approved manner.

FIRE MARSHAL - SAN FRANCISCO PORT COMMISSION

The Port is a unique area of San Francisco with a wide variety of activities taking place within its boundaries. The Port Fire Marshal's office is responsible for the area from Aquatic Park to beyond Pier 96. Many of the lengthy finger piers still exist and are extensively used. These piers have combustible superstructures, large amounts of combustible storage, a design that contributes to the lateral spread of fire, and very limited access. Finger piers are no longer practical and are being replaced by wharfs where storage areas are open and more accessible. Today, automatic sprinkler systems are becoming the rule rather than the exception, and most superstructures or sheds are made of incombustible material.

Containerization has changed the nature of cargo handling in a manner that has reduced the exposure of combustible materials and improved access to the cargo if it should become involved in fire. While in a container, combustible material is protected from exposure to common sources of ignition. They are located in open areas for ready access when not aboard ship and the cargo moves faster off the waterfront once unloaded. These changes have resulted in a decrease in serious fires involving cargo.

Current Projects and Activities

1. The Fisherman's Wharf Area The City, the Port, the fishing industry, business community, and residential groups have joined together and produced a plan which not only meets the needs of the fishing industry, but maintains the character and flavor of Fisherman's Wharf. This office was heavily involved in the planning phase and will play an even greater role as the construction phase progresses.
2. Pier 45. This 11.3 acre pier has four buildings of approximately 70,000 square feet each. Two of these buildings are being used by fish handling companies at the present time. This office initiated and coordinated a cleanup program in conjunction with various Port departments. Debris was removed, and abandoned autos were towed. This resulted in the establishment and maintenance of fire lanes and created a safe working environment.

3. The Delancey Street Foundation Project. This is a "mixed use" project with four-story apartment buildings as well as retail shops, a theatre, and restaurants. Once again, this office played an active part in the planning stage as well as during the construction stage. The project should be completed and occupied during the current fiscal year.
4. Exhibitions, Fairs, and Displays. Many times during the year, permit applications are received for fireworks displays. These fireworks are loaded aboard barges and taken by tugboat to a point several hundred yards offshore and fired. Processing the permits, receiving approval from various Port departments, and observing the loading of the shells are part of the duties of this office. The Festa Italiana, the Dickens Faire, and the Images of Time and Space exhibition are among the various public assemblages and exhibits that this office must supervise. These assemblages draw thousands of additional people to what is already one of the most congested areas of the City.
5. Plan Checking. Every tenant improvement that takes place on property situated within the jurisdictional boundaries of the Port requires a permit. The plans for these improvements must be approved by the Port Fire Marshal's Office prior to permit issuance.

The major details of the Port Fire Marshal's operations and activities are as follows:

	<u>1987-88</u>	<u>1988-89</u>
Pier surveys, seawall lots and building inspections	321	232
Reinspections and resurveys	<u>292</u>	<u>604</u>
Total number of inspections and surveys:	613	836
Total number of plans checked	419	425
Lectures and First Aid Classes	23	16
Welding and Permit Inspections	145	157
Plan Review Meetings	329	420
Property Management Conferences	239	472

BUREAU OF FIRE INVESTIGATION-ARSON TASK FORCE

The goal of the Bureau of Fire Investigation is to conduct comprehensive investigations of fires, including all of the factors influencing or contributing to the fire ignition sequence and the communication of fire. Activities include accidental fire investigation to determine the origin and cause, criminal investigation when arson is determined and the reduction of arson incidents through the Arson Early Warning System.

The determination of origin and cause provides the foundation for the development of the factual and legal theory underlying the incident. An analysis of the origin, cause, and spread of the fire often leads to a complete formulation of liability and causation which will ultimately be presented at trial.

The extensive and detailed information obtained from these comprehensive investigations also makes it possible to develop the most effective regulatory codes, standards, inspection and suppression procedures, and similar actions designed to prevent or control fire.

Bureau of Fire Investigation personnel participated in numerous pre-trial conferences and trials in civil and criminal courts in order to assist in the resolution of conflicts and in the prosecution of subjects apprehended for violation of fire laws.

During the 1988-89 fiscal year, the Arson Task Force was responsible for 57 felony arrests and 33 misdemeanor arrests. The conviction rate for arrests by the San Francisco Arson Task Force remains at 95%, the highest in the nation for the Class 1 crime of arson. The national average for arson convictions is 31.7%. Our extremely high rate is attributable to the long-term experience and dedication of the members of the Task Force. All members: Investigators, Police Department inspectors, and the Assistant District Attorney work well together as a team. Federal, State, and private organizations participate within the Task Force on an as needed basis.

Investigation

The Bureau of Fire Investigation responded to 566 incidents.

Below is a comparison of the relevant Bureau of Fire Investigation/Arson Task Force statistics for Fiscal Years 1987-88 and 1988-89:

	<u>1987-88</u>	<u>1989-90</u>	<u>Change</u>
Accidental Fires	104	114	+ 9.6%
Incendiary Fires	208	217	+ 4.3%
Vehicles	149	180	+ 20.8%
Under Investigation	13	10	- 23.1%
Attempt to Burn	9	8	- 11.2%
Undetermined	9	15	+ 66.6%
False Alarms	<u>7</u>	<u>22</u>	+214.0%
Total Incidents Investigated	492	566	

ARSON EARLY WARNING SYSTEM

The goal of the Arson Early Warning System is to reduce arson-for-profit fires and negligent fires by identifying potential high risk buildings through the examination of public records in conjunction with on-site inspections. Relevant information is provided to insurers so that steps may be taken to minimize risk by cancelling the policy, increasing restrictions, or not insuring at all. Intervention is also accomplished by direct contact with the owner.

The Arson Early Warning System obtains referrals from Chief Officers, field units, concerned citizens, insurance representatives, and the Bureau of Fire Prevention. The investigator assigned to the Arson Early Warning System is also responsible for obtaining background information for cases under investigation by the Arson Task Force.

During Fiscal Year 1986-87, a pilot program was initiated through the California Arson Prevention Committee whereby insurance companies experiencing fire losses within the City and County of San Francisco would voluntarily forward a copy of a routine insurance form entitled "Property Loss Notice" to the Fire Department. This procedure assures prompt identification of the Company insuring the loss as well as providing valuable information on the policy, loss amounts, adjuster's name, and other miscellaneous information which may be used during the Fire Department's investigation of the incident. The information obtained may also indicate the need for the Bureau of Fire Investigation to open an investigation into incidents to which it was not summoned.

An automated program for data entry and the sorting of this information has been developed on microcomputers. The ultimate goal is to analyze data on all insured fire losses so that more accurate records may be maintained, perpetrators of multiple claims identified, and the potential for insurance fraud reduced.

The pilot program has shown that consideration should be given to exploring the possibility of proposing legislation requiring insurance companies to report all insured fire losses to the Fire Department. This appears to be the most expeditious way of obtaining participation in this program by all insurance companies writing fire insurance in San Francisco.

Fiscal Year 1988-89 has shown some voluntary cooperation by insurance companies in reporting these losses, but insufficient numbers of these documents have been received to fully utilize the program's capabilities.

FIRE FATALITIES

There were ten (10) fire fatalities during Fiscal Year 1988-89. One of the fatalities was a homicide and another was a suicide by immolation in a school yard.

Fire fatalities for the past six fiscal years were as follows:

	<u>1983-84</u>	<u>1984-85</u>	<u>1985-86</u>	<u>1986-87</u>	<u>1987-88</u>	<u>1988-89</u>
<u>Total Fatalities</u>	23	10	22	14	13	10
<u>'Occupancy</u>						
Apartments	9	6	6	1	6	5
Dwellings	8	4	7	11	2	1
Hotels	5	0	0	1	0	0
Other *	1	0	9	1	5	4
*School Yard	1					
Automobile	1					
Warehouse	2					
<u>Age Group</u>						
Under 15	3	1	1	0	2	0
15 thru 64	13	4	15	5	7	7
Over 64	7	5	6	9	4	3
<u>Cause of Fire</u>						
Smoking Mat.	5	6	7	6	2	8
Heating-Cooking	5	3	2	0	1	0
Incendiary	1	0	1	0	3	1 **
Electrical	9	1	3	2	3	0
Other	3	0	9	6	4	1 ***
** Homicide						
*** Suicide						

DIVISION OF SUPPORT SERVICES

The Division of Support Services Program encompasses three main areas: Bureau of Communications, Bureau of Engineering and Water supply and Bureau of Equipment. In addition, Buildings and Grounds, Earthquake Preparedness, the Water Rescue Team, the Medical Services Bureau, and the Fire Department's Fireboat are administered through the Division.

The Chief of the Division sits on various inter-departmental committees in order to accommodate the needs of the Fire Department as well as providing fire safety information to other departments. During the previous year, the Division worked closely with the Department of Public Health and the Department of Public Works in doing a "needs study" of Department properties pertaining to seismic stability, asbestos contamination, handicap access and facility maintenance needs.

On a routine basis, the Division processes repair and capital improvement requests for the Department's 55 facilities and forwards them to the Bureau of Building Repair which has the responsibility for maintenance and repairs.

Salvage Operations

Personnel from the Division of Support Services work closely with the field units in order to maintain a proper inventory of salvage and roof covers and also sprinkler heads. If this equipment is needed by the general public, a rental fee is assessed. Salvage operations' statistics for fiscal year 1987-88 and 1988-89 are listed below:

	<u>1987-88</u>	<u>1988-89</u>
1. Roof Covers used	51	8
(no charge)	12	7
2. Salvage covers used	81	61
(no charge)	31	35
3. Rental fees billed	\$1,493	\$3,736
4. Replacement fees for lost covers	0	\$ 396
5. Sprinkler Heads replaced	98	119

Capital Improvement Programs

The Emergency Power Generator project to provide emergency power to selected Fire Department facilities is progressing and should be completed during fiscal year 1989-90.

The apparatus door project to replace the overhead apparatus doors with modern, light-weight doors was funded with \$75,000. When this project is completed, maintenance costs will be significantly reduced.

The underground fuel storage project was not funded for fiscal year 1988-89. This has negatively impacted the department in two ways: (1) an inordinate amount of out-of-service time is being caused by vehicles being out of their normal response area during re-fueling operations, and (2) an inadequate supply of fuel is available in case of a major earthquake as well as scarcity of dispensing locations.

In the upcoming fiscal year, the Division of Support Services will be actively involved in (1) upgrading facilities to afford more privacy for female firefighters, (2) master planning for fire station needs, (3) maintaining the apparatus replacement schedule and (4) assisting with earthquake preparedness for the Department.

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COMMUNICATIONS CENTER

The Bureau of Communications serves as the dispatch and radio communications for all emergency and non-emergency response of Firefighting units. In fiscal year 1988-1989 there was:

An increase of 5,846 dispatches	58,178 total
An increase of 5,546 telephone calls	48,828 total
A decrease of 116 box alarms	8,934 total
An increase of 21 greater alarms	92 total

	<u>1986-87</u>	<u>1987-88</u>	<u>1988-89</u>
' <u>Incident Total:</u>	44,945	52,332	58,178
By Telephone	36,570	43,282	48,828
Box Alarms	8,375	9,050	8,934

Greater Alarms:

Second Alarms	56	51	58
Third Alarms	9	17	21
Fourth Alarms	2	1	9
Fifth Alarms	1	2	4
Total Greater Alarms	68	71	92

Procedures were enhanced for greater alarm notification, cliff rescue dispatch, hazardous materials incident dispatch, and liaison with police communications. Additionally, studies were conducted for technological improvements in the field of radios, pagers and telephones. The 10-code was eliminated and plain English was adopted as standard communication.

Additionally, the Bureau of Communications is responsible for the following:

1. Acts as an Information Center producing a daily report of newsworthy events or greater alarm information.
2. Serves as the dispatch center during the off season for the California Office of Emergency Services.
3. Serves as management center for firefighter overtime (new computerized program started this year).

FIRE PROTECTION BOND PROGRAM

Earthquake Preparedness

The Fire Protection Bond Program (1986 Prop A) provides for an integrated Emergency Firefighting Water System for San Francisco's residential areas. When completed, the program will add 95 cisterns, extend the High Pressure water mains to outer residential areas, add suction connections in order to access the Pacific Ocean, San Francisco Bay and various lakes, rebuild Pump Stations 1 and 2, and construct a new Pump Station at Lake Merced and a new Emergency Operations Center at Central Fire Alarm Station.

The majority of design and engineering work for the various projects has already been completed.

Sale of the remaining \$15,000,000 of authorized bonds will occur about March of 1990 which coincides with the increased expenditures schedule as we enter the construction phase of the program. The Fire Department and the Department of Public Works engineering staff will be maintaining close coordination in order to minimize any effect that inflation may play on the value of the bond funds.

BUREAU OF ENGINEERING AND WATER SUPPLY

Fiscal year 1988-89 was one of the busiest years for the Bureau of Engineering and Water Supply. Emergency repair work and other high priority work frequently caused the Bureau to shift its resources away from its normal repair and servicing. As an example, the Bureau personnel repaired four major high pressure line breaks and five major leaks. The worst line break occurred in September, 1988 in Washington Street between Waverly Place and Grant Avenue with three consecutive breaks in less than 100 feet. This work occupied over 50% of the Bureau's personnel for approximately one month.

The Market Street Transit project created a further demand on the Bureau's personnel because the High Pressure hydrants must be relocated and reconnected to the Auxiliary Water Supply System (AWSS). The implementation of the 1986 Proposition A Bond program also requires the expertise and services of the Bureau's personnel on an ongoing basis.

This fiscal year, the Bureau experienced two significant events:

1. The drought was officially ended allowing the AWSS system to return to fresh water after successfully using salt water from the Bay for one year.
2. The Bureau hired its first female employee - a general laborer.

The yearly objectives of the Bureau of Engineering and Water Supply are to service 30 percent of the fire hydrants, to paint 25 percent of the fire hydrants, and to operate 33.3 percent of the estimated 3,071 valves installed in the Auxiliary Water Supply System. The Bureau's statistics for fiscal 1988-89 are as follows:

	<u>Objective</u>	<u>Performance</u>
H.P. Hydrants Serviced	444	371
H.P. Hydrants Painted	372	47
H.P. Valves Operated	1,023	615
L.P. Hydrants Serviced	2,436	2,252
L.P. Hydrants Painted	2,028	168

BUREAU OF EQUIPMENT

The Bureau of Equipment is staffed by one officer and eight firefighters. It is responsible for scheduling all maintenance work, prioritizing repairs, inspecting department apparatus, conducting emergency repairs during evening hours and weekends and record keeping of vehicle operations (including inventory control).

At least two firefighters from the Bureau respond to all greater alarms and many special calls. They assist companies by making emergency repairs, operating specialized equipment or performing fire fighting duties as required. The Bureau also assists other City agencies with emergency repairs and special towing jobs. Additionally, it is responsible for servicing and maintaining the Department's small tools, hose, and portable extinguishers.

By maintaining membership in various fire service organizations and working closely with the Department's Apparatus and Equipment Committee, the Bureau is able to establish and maintain modern specifications for equipment purchases. Currently, 1 3/4" hose, along with automatic nozzles, are being evaluated as well as a safer apparatus braking device. Annual pump tests and new equipment acceptance testing are two other areas of responsibility.

The Department's Apparatus Replacement Program and Aerial Ladder Inspection Program are under way and progressing in a reasonable fashion. Four new aerial ladder trucks were ordered this fiscal year.

SAN FRANCISCO FIRE DEPARTMENT VEHICLES

In-service Engine Companies.....	41
Relief Engines.....(Authorized 15). Actual.....	12
In-service Aerial Companies.....	18
Relief Aerials.....(Authorized 08). Actual.....	00
Relief Ladder Trucks (non-working Aerials).....	05
' Heavy Rescue.....	02
Relief Rescue.....	01
Field Chiefs Vehicles.....	16
Relief Chiefs Vehicles.....	05
Miscellaneous Support Vehicles.....	31

Bureau of Fire Prevention and Investigation

Automobiles.....	30
Van.....	01

Bureau of Engineering and Water Supply

Vehicles...(pickups, valve units, crane truck and autos)....	26
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WATER RESCUE UNIT

The San Francisco Fire Department Water Rescue Unit consists of two teams. Team 1 is comprised of all divers and water rescue technicians stationed within the city limits of San Francisco. Team 2 is located at the San Francisco International Airport.

Team 1 is under the direct supervision of Captain John Rebholtz, Rescue Squad 2. Training and the development of improved water rescue techniques is under the direct supervision of Lieutenant Bob Fennell, Station 18, and Lieutenant Tilden Hansen, Station 34. Through their efforts, Companies located in Battalions 7 and 8 (Stations 18, 19, 23, 14 and 34) have been outfitted and trained to handle any water-related incident occurring in the coastal waters of San Francisco. During the past year, the firefighters stationed in these companies, along with Rescue Squads 1 and 2, responded to over 40 water-related emergencies. These responses involve:

Automobiles into the waters of the San Francisco Bay. Search and extrication of victims. Assisting tow companies in retrieving vehicles from water.

A number of successful search and rescue incidents along Ocean Beach and China Beach, involving both swimmers and surfers. These rescues involve the cooperative efforts of the Fire Department, Coast Guard and Park Rangers.

Boating accidents in the Aquatic Park and adjacent area. Incidents involving the search of submerged vessels and pier areas..

Shoreline rescues, especially in the area of Lands End. Stranded climbers are often trapped on the cliff line or in the rocky shore line below. Numerous serious or fatal accidents occur each year in these areas.

Undoubtedly, the majority of rescue incidents occur along Ocean Beach. Rip tides and unpredictable currents are a constant threat to experienced surfers as well as the inexperienced swimmer.

Team 2, under the direct supervision of Firefighter Jack McManus, responds to incidents in waters adjacent to the International Airport

Dive drills are regularly scheduled. Many of these drills involve both teams and/or units from the Coast Guard and Golden Gate Park Service.

DIVISION OF TRAINING

The responsibilities of the Division of Training include the supervision of all Fire Department recruit and in-service training and the Fire Department Reserve.

During fiscal year 1988-89, following the trend of recent years, the scope of training activities continued to expand. Instruction was provided to all members in defibrillation, hazardous materials, first responder, AIDS awareness, interpersonal relations, incident command, CPR, wildland firefighting and a wide variety of other subjects. Members also participated with Civil Service staff in creating job analyses for promotional ranks and in developing a physical aptitude test for firefighter candidates.

A successful recruiting effort was coordinated with Management Services which culminated in the adoption of the first Fire Department entrance list in many years. On May 1, 1989, the 75th probationary class was sworn in and regular recruit training was resumed.

Commencing with this probationary class, every new firefighter, upon successful completion of his or her probationary training, will be certified under standards of the Office of the State Fire Marshal as "Firefighter I." In order to meet these standards, it was necessary to revise the recruit training program to provide fourteen weeks of training at the Fire College followed by an additional eight months of supervised field training.

The additional time is necessary because of the requirement that a Firefighter I must successfully complete training as an Emergency Medical Technician (EMT) and must also receive training in wildland fire fighting.

Recruit evaluations as well as their training records are now computerized; this will greatly enhance the value and usefulness of information and data developed in the training program.

During the period when there was no entrance list, more than 200 vacancies accrued in the Fire Department. In order to fill these vacancies, recruit classes were scheduled on 16-week cycles and will continue for at least the next seven years.

The demands which recruit training now places on the staff and facilities, together with the expanded scope of training activities, have made it impractical to regularly schedule drills in firefighting, rescue and salvage operations at the Drill Tower as has been done in the past. For this reason, new emphasis has been placed on company and battalion drills in the field. Battalion Chiefs have identified alternative drill sites in each district for this purpose and a drill schedule has been prepared. Drills will be coordinated and performance levels evaluated by Battalion and Division Chiefs.

During fiscal year 1988-89, the Division of Training acquired two new portable buildings. These buildings provide three additional classrooms as well as office space for the training officers. Since these classrooms became available, they have been in almost constant daily use. Training classes which were scattered in such diverse locations as the Presidio, the Police Academy, Fire Department Headquarters and old Stations 21 and 30 are now conducted in one convenient location.

FIRE AUXILIARY RESERVE

During the fiscal year 1988-89, members of the San Francisco Fire Reserve responded to assist the Department at a combined total of thirty-four Third, Fourth and Fifth alarm fires. This amounted to approximately 348 hours of service.

Reserve members also attended over 48 weekly training exercises for a total of approximately 1600 hours of training and drills. In addition to basic training in firefighting skills, special emphasis was placed on familiarity with San Francisco's unique water supply system including the use and deployment of the 5" portable water main and hydrant system, as well as drafting from cisterns and the bay.

The Reserve is also proud to announce that during this period six members of the Reserve placed highly on the Department entrance examination. At this time, one member has completed training as a probationary firefighter; three members, including one woman, are attending the fire academy; and others soon will attend subsequent classes.

During the upcoming year, the Reserve hopes to greatly extend membership and training to a greater portion of the community and provide an expanded program of specialized training in earthquake preparedness, heavy rescue and incident management, as well as fire suppression and first aid skills.

HEALTH AND PHYSICAL FITNESS PROGRAM

San Francisco Fire Department Fitness Center:

In January 1989 the San Francisco Fire Department put into service a self-contained Fitness Center in the quarters of old Station 21 at 1152 Oak Street. Approximately \$40,000 worth of equipment was purchased. Included in the purchase price were two Stairmasters, one treadmill, four stationary bikes, one recumbent bike, and a full assortment of free weights and machines.

Pre-Recruit Training Program:

The San Francisco Fire Department offered a complete fitness program for those people interested in becoming firefighters. In October of 1988 an aerobic conditioning program was offered on Monday and Wednesday evenings and Tuesday and Thursday mornings.

After the written exam was given, approximately 250 successful candidates were offered a three-month intense weight training program leading up to the Physical Abilities Test (PAT). All candidates also had the opportunity to practice the various events that would be given on the P.A.T. Forty-four women and nine men took advantage of the weight training program.

Statistics:

- 56 women took the P.A.T.
- 28 women passed P.A.T.
- 24 women of the 28 were enrolled in the S.F.F.D. weight training program.
- 8 of the 9 men enrolled in the S.F.F.D. weight training program passed.

The San Francisco Fire Department was notified by the United States Justice Department that it had one of the best Pre-Recruit Training Programs in the country.

The Health and Physical Fitness Program for the San Francisco Fire Department started in 1980. In fiscal 1988-89 the Administration approved an in-service volunteer program for 20 firefighters. The program began January 1, 1989 and extended until June 30, 1989. Sixteen of the volunteers stayed with the program for the duration. Four were dropped for various reasons (on-duty injuries, sickness, etc.).

The 20 volunteers were detailed to the Fitness Center for one hour while on duty, then reported back to the Center the following morning for one hour while off duty. Anatomical statistics were taken on each individual and recorded on a monthly basis. The volunteers followed a program that combined diet modification, aerobic fitness and muscle toning exercises with the use of free weights.

Excellent results were accomplished by those who were consistent with the program:

Average weight loss	16 lbs
Average drop in systolic blood pressure	8 points
Average drop in diastolic blood pressure	8 points

The San Francisco Fire Department remained under contract with Ralph K. Davies Medical Center for our stress testing program.

The following statistics were compiled by "Health Check" from over 360 firefighters tested in fiscal 1988-89.

	<u>Number of Firefighters</u>
Total cholesterol level above 200 mg/dl	170
Body fat level above 20%	165
Triglyceride level above 220	36
Diastolic B/P over 90	43
Firefighters having one coronary risk factor	115
Firefighters having two or more coronary risk factors	129

Notes

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